

<110> Ruben et. al.

<120> 97 Human secreted proteins

<130> PZ028P2

<140> Unassigned

<141> 2001-09-10

<150> 60/231,846

<151> 2000-09-11

<150> 09/892,877

<151> 2001-06-28

<150> 09/437,658

<151> 1999-11-10

<150> PCT/US99/09847

<151> 1999-05-06

<150> 60/085,093

<151> 1998-05-12

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<151> 1998-05-18

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<151> 1998-05-18

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<151> 1998-05-18

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<160> 465

<170> PatentIn Ver. 2.0

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 <213> Homo sapiens

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tctcccgga ctcctgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg      180
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acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggtcttgc      660
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 <212> PRT
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 <223> Xaa equals any of the twenty naturally occurring L-amino acids

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gcccctaact ccgcccagtt ccgcccattc tccgcccacat ggctgactaa ttttttttat 180
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32

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31

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12

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<211> 73
<212> DNA
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ccatctcaat tag 73

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<211> 256
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<213> Homo sapiens

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cagttccgcc	cattctccgc	cccatggctg	actaattttt	tttatttatg	cagaggccga	180
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cttttgcaaa	aagctt					256

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<212> DNA

<213> Homo sapiens

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gggatactcc	caccatcgtc	tcccgcaagg	agtggggggc	aagaccgctc	gcctgcaggg	180
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gcactccagt	ctgggagaca	gagtggagact	gtctcaaaaac	aacaacaaaa	aaatccctaa	1140
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<212> DNA

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tccacagatt	ttgaagtaca ccgaaactgg cttgctatca ctcacagttt gccaatatca 180
cagtgggtatt	atgaggcaac ttcagagtgg acgttggatt accccccttt ctttgcattg 240
tttgagtata	tcctgtcaca tggtgccaaa tttttgatc aagaaatgct gaatgtccat 300
aatttgaatt	actccagctc aaggacctta cttttccaga gattttccgt catctttatg 360
gatgtactct	ttgtgtatgc tgtccgtgag tgctgtaaat gcattgatgg aaaaaaagtg 420
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 <223> n equals a,t,g, or c

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<212> DNA
<213> Homo sapiens

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aagggtcggg gagggccggg agatgttgac cctgggtggga gcaggctgag gctgccccgt 240
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aacaccaca acttgaattt gtatcatggg aggtgggagg gagtggctta gaggtgtctg 1440
cctatgctta aagccaactg tggaagtttt gttttccctt ttttgtataa taaagtgaag 1500
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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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ctctatctcc agagccaaaa tcaagatttg ctatgttaga cgatgtaaaa attttagcca 180
atggcctcct tcagttggga catggtctta aagactttgt ccataagacg aagggccaaa 240
ttaatgacat atttcaaaaa ctcaacatat ttgatcagtc tttttatgat ctatcgctgc 300
aaaccagtga aatcaaagar gaagaaaagg aactgagaag aactacmtat aaactacaag 360
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aattaaacca acagcatagt caaataaaaag aratagaaaa tcagctcaga aggactagta 660
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ggcaataatt taaacattaa cctcattcca agttaatgtg gtctaataat ctggtattaa 1500
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<210> 17
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<210> 18
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 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1100)
 <223> n equals a,t,g, or c

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 <211> 1537
 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

<220>
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<220>
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<211> 1508

<212> DNA

<213> Homo sapiens

<400> 21

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<210> 22

<211> 1447

<212> DNA

<213> Homo sapiens

<400> 22

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<211> 3886

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (3743)

<223> n equals a,t,g, or c

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<221> SITE

<222> (3848)

<223> n equals a,t,g, or c

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<221> SITE

<222> (3877)

<223> n equals a,t,g, or c

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<221> SITE

<222> (3882)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (3885)

<223> n equals a,t,g, or c

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<211> 1583

<212> DNA

<213> Homo sapiens

<400> 24

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<210> 25
 <211> 1669
 <212> DNA
 <213> Homo sapiens

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 <222> (587)
 <223> n equals a,t,g, or c

<220>
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<220>
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<220>
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 <223> n equals a,t,g, or c

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<210> 26

<211> 1053

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1025)

<223> n equals a,t,g, or c

<400> 26

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<210> 27

<211> 1477

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> n equals a,t,g, or c

<400> 27

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<210> 28

<211> 2504

<212> DNA

<213> Homo sapiens

<400> 28

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<210> 29

<211> 1866

<212> DNA

<213> Homo sapiens

<400> 29

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<210> 30

<211> 1501

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (434)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (441)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1300)

<223> n equals a,t,g, or c

<400> 30

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<210> 31

<211> 1752

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1099)

<223> n equals a,t,g, or c

<400> 31

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<210> 32

<211> 2152

<212> DNA

<213> Homo sapiens

<400> 32

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ctccctctgc	cacatttttt	ggagggttgg	aaagttgcta	gaggcttcag	aactccagcc	180
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<210> 33

<211> 1757

<212> DNA

<213> Homo sapiens

<400> 33

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<210> 34

<211> 1466

<212> DNA

<213> Homo sapiens

<400> 34

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<210> 35

<211> 526

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (283)

<223> n equals a,t,g, or c

<400> 35

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<210> 36

<211> 2412

<212> DNA

<213> Homo sapiens

<220>

<221> SITE
 <222> (329)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (340)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (977)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1117)
 <223> n equals a,t,g, or c

<400> 36

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gacttgaggt	aaggcttttca	agattgccat	attacattca	ttaaaggcaa	ctcatccttg	1560
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tcacagttca	ctaaaaaaca	agcggaaacc	tgggcaaaagc	cctttggggc	tttaatagca	2160
atggaggaca	tcaccctgtc	actttctctg	cttctacaca	gcaggcaatc	aaggaaaact	2220
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ggatgatttg gggatagctg gaaggatagt tacttgcacg aataatattt attcaccgtc 2340
agtgtgatat ttctcaatag aaagattgta tttaaaatgt acaactacaa aaaaaaaaaa 2400
aaaaaactcg ag 2412

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<210> 37
<211> 1274
<212> DNA
<213> Homo sapiens

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<400> 37
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ggttagtttc actatctgct tcattctttt aaaatgtcaa gtgttttctc ttgagggaac 180
cttctgaatt actttgcctg cactatacct aattcttatt acaatgctgt gaactttgaa 240
ttattaccct tgttcacccc aaatggaaaa tcaaagctca aagagggtgag tgactgcca 300
gctcatgcag ctgatagaat caagatttca tttcagggtg gtctggatcc tgcacttact 360
tgctcttttc tcaacatggc ctccctaagga tccagaagga agcccgccat cagcaaccag 420
cagcccactc acccccacc tcagtctcac cttgccattc aaacaggctc cagtttcaaa 480
tgtcagttct gccattcacg tgatgctgga caagtcagtt agcctctctg agattcaatt 540
ttctcatatg cctaattgga aaagagcatc taccttataa attgcatatt tactcttctc 600
tcccactgac tcaatagaac tatattcccc aytcccatag atgctggcct tagacttggtg 660
acttgcatg gccaatgaga tgagacatac accaatcaaa agagaggcat taaatgtgca 720
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gctgactaat acatctaccc tttgagggtg ctatgaggac acagtaagat aagatgtgag 1200
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<210> 38
<211> 1036
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (43)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (47)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (58)
<223> n equals a,t,g, or c

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<400> 38
caaaccatcct ttacgtgcac actgatacac cgtcacgcct gcnggtnacc ggcccggnat 60
tcccgggtcg acccagcgt ccgggggaag caagcactta tttggctact tgggtgccat 120

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ggggaaagaa	ttcctaatagc	tccttatgtg	ttagaggact	ttgttgagaa	tgtgaagtcg	180
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cgacctgctg	agtgccagga	catgctagga	cgtttggtgt	attactgcat	agaggaagaa	300
aaagatatgg	ctgtacggga	ccgaggtctc	ttctattatc	gcctcctctt	agttggcatt	360
gatgaagtta	agcggattct	gtgtagccct	aaatctgacc	ctactcttgg	acttttggag	420
gatccggcag	aaagacctgt	gaatagctgg	gcctcagact	tcaacacact	ggtgccagtg	480
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actgctgatt	attttgagaa	aacttggtct	agccttaaag	ttgtctatca	gcaagtgttg	720
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cagatctctg	tgaacaaaa	tgaagcaaga	acggagacgc	tgaatagttt	tatttctgta	960
ttagaaactg	tgattggaac	aattgaagaa	ataaaatcat	aacagagaaa	aaaaaaaaaa	1020
aaaaaagggc	ggccgc					1036

<210> 39

<211> 1379

<212> DNA

<213> Homo sapiens

<400> 39

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gcctctt	ca	ac	gc	ctct	cc	180
ctcccc	tc	ag	cc	actg	gt	240
agggcct	ga	gag	acc	atc	cg	300
agaattt	gt	caa	ata	caa	gac	360
gcagcaag	tc	ag	act	tc	gag	420
gctggtg	gtt	tc	aca	ag	cag	480
ccctgaag	ct	gt	gc	ccc	gc	540
gaacagag	ag	gc	ct	gc	gg	600
gcgggca	ct	g	act	g	caa	660
gctactt	tg	g	ca	ag	c	720
gtgccc	gat	g	ag	ac	c	780
tgcatcac	ct	ca	agt	gt	gta	840
ctgacca	att	ct	gc	gt	ga	900
gcctagg	ct	g	gg	g	g	960
aggtggg	ctc	ca	agt	gt	ctc	1020
acaagca	gt	g	aaa	ac	c	1080
agatgga	agg	cat	ct	gt	gtg	1140
taaccct	gta	a	ca	ac	c	1200
aaatga	agat	gc	ag	agat	g	1260
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<210> 40

<211> 1932

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (293)

<223> n equals a,t,g, or c

<400> 40

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gggagggcca	tgatttccct	cccggggccc	ctggtgacca	acttgctgcg	gtttttgttc	180
ctggggctga	gtgccctcgc	gcceccctcg	cgggcccagc	tgcaactgca	cttgcccgcc	240
aaccggttgc	aggcgggtga	gggaggggaa	gtggtgcttc	cagcgtggta	cancttgac	300
ggggaggtgt	cttcatccca	gcatggggag	gtgccccttg	tgatgtgggt	cttcaaacag	360
aaagaaaagg	aggatcaggt	gttgctctac	atcaatgggg	tcacaacaag	caaacctgga	420
gtatccttgg	tctactccat	gcccctcccg	aacctgtccc	tgcggtgga	gggtctccag	480
gagaaagact	ctggccccta	cagctgctcc	gtgaatgtgc	aagacaaaca	aggcaaactt	540
agggggccaca	gcatcaaaac	cttagaactc	aatgtactgg	ttcctccagc	tcctccatcc	600
tgccgtctcc	agggtgtgcc	ccatgtgggg	gcaaactgta	ccctgagctg	ccagtctcca	660
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tttgaccag	cattagatgt	catccgtggg	tctttaagcc	tcaccaacct	ttcgtcttcc	780
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tggttggaact	ggggttgctg	gctgggctgg	tcctcttgta	ccaccgccgg	ggcaaggccc	960
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atgtttgtat	garaaaaaaa	aaaaaaaaaa	aaaaagggcg	gccgtctag	aggatccctc	1860
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ttataagcta	gg					1932

<210> 41

<211> 1430

<212> DNA

<213> Homo sapiens

<400> 41

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tgcaagtgca	cttakacaaa	tgagatcaga	tgacctgggg	aacgtggctt	gtacacacct	180
ttctgtgttc	tgtagcatca	gctaagacct	taaaatcagt	aagaaagtat	ctgtctctct	240
gttcacccat	aggaagcagc	ttcgtgggtga	gtgaaggagg	ctacctggac	atctccgact	300
ggttaaacc	ggccaagctt	tcctgtatt	accagatcaa	tgccacctcc	ccatgggtga	360
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tgtgtccct	ctacctaaag	aacctgggrk	tctgagccat	tgacaagtgg	ctgaataaga	540
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ttcttagaga	gccacagact	ctcagagtaa	gaaaggacca	cagagaacat	ctggcctagc	660
tccagacaag	caaaatgtct	gcacttcaga	tatccctgca	ttcagagcct	atcttcttgg	720
tactagctgg	gtgatcttga	gcaagacact	gcttaccttt	cagtacaaga	gaatgaaaat	780
agcaccaacc	cacaaaactg	tcattaggat	tgaatgagaa	gctgtgtgga	aatctcacag	840
catattcatt	aattcactca	acagggtattt	ctttagtagc	caggcatatt	tttaggtatt	900

gggaagacag	cagtgatcaa	aatatgcaaa	atctccaccc	tcatgaagct	tacatgctag	960
tggggtagac	actaaacatg	cactgtggaa	tatggtagcc	actagctaca	tgtggcattt	1020
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agatttcaag	tgttccatag	ccacacacta	gcagctacat	tgttgcaaa	catagmtata	1140
gaatatcttc	atcactctga	aaattttctca	tgggacagtg	ctgcagtggg	caaacaagca	1200
ggtaaattat	atgactctgt	taggtgatga	tagatgccgg	tgtaggggaa	aagaatgatg	1260
tacaaagcat	gtggagtgt	aagctgggag	tttgggtgga	gtttcattat	acagaaagt	1320
gtcaggggag	gcctctctga	ggtaagagga	tcacttgagc	ctaggagttc	gagtccagcc	1380
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<210> 42

<211> 1407

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (353)

<223> n equals a,t,g, or c

<400> 42

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gacttaaaa	accaacatgc	cagttgtgccc	atcccttaag	atgaaaagtt	ccttttcttg	180
tgtaaatgta	caaagctttt	cttttgccac	tgacaactgt	gttctacctg	ggaattttga	240
atagccattt	tcatggctgt	gtgttgtgta	acacaaatgt	ttttaaatgg	tattctcacc	300
cagtaggcca	gctctccaaa	cgttgcttag	atgcttcaaa	attagcatat	ttnaagttta	360
ccagtataaa	ataccaatgc	aactactcta	catagccaaa	tgtttgtaaa	tcacgtctta	420
ttttcctgak	gtttttcact	ccaccaaate	ttacaaatsr	ttgaaagaaa	tatatcttaa	480
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tttaaattag	tagaaaagag	gagctatttc	cgaatctata	gaataaaagta	ccacctaaaa	600
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cattcaatta	aaatmcatga	attttaaata	ttttacatga	tgtgaatagg	catgataata	720
cttttagtat	aaaatctaaa	ctttttccat	ttatcagaaa	tgataaaatc	cagttaccac	780
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tatagtkgta	ttttcctcct	cactgttaaat	aatcataatc	ctttttcagt	atttttagtgg	1080
cctgaacaac	tggtttatct	acaatctcaa	atcctaagt	tataattatg	tgcatgttca	1140
atacctcata	taataacttg	tcaacagtat	agtggtagca	tggcattaag	atgggtgttt	1200
tgttctacat	atttttcaat	atttattctt	tctatgttga	aattatatca	ggctttaccg	1260
gttttttttag	ttgttttaaat	aagtaaatatt	ttcaaaaagaa	taaaataaacc	aatgatattct	1320
cttggataaa	tctgtaaaaac	gtagttataa	aattctattt	tctacttaga	aaaaaaaaaa	1380
aaaaaaaaaa	aaaaaaaaaag	ggcgcc				1407

<210> 43

<211> 950

<212> DNA

<213> Homo sapiens

<400> 43

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tgccagattt	gttaaatcag	cgaccttatt	ttatatatat	ttctaagtca	tggccatggg	180
catagaagct	tcttttttaa	ttaagaagga	aaaataaaaa	tatgtgaaaa	gaaagccata	240

aagggtcattt	tacacacatg	taactccatg	cacgaatgcc	agtccttccc	cttgtgtgtg	300
cacttgagac	tagttctact	actatccttc	aaaacccaag	tgcatagaatt	ccatgaagtt	360
tttccccatt	attctcattt	taattttcct	tctctgaaca	actatgacat	taattttatta	420
cttaatcatg	aattatggca	tacaactccc	taattgatgt	ttgtggggtt	ttttctcccc	480
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tggtctttac	accaaagtc	cagggaatc	ttacatagag	tttataccag	gcaagaaaag	660
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aaaaggcaga	aagcaagtgt	agtatcatct	tgccatctag	cttggaaatt	aacacttgat	840
cctaaattag	gtaatcttcc	cttcacatct	cagagttttc	caggcaacag	acactcagta	900
cgaacaacaa	caacaacaac	aacaaaaata	ccaaaaaaa	aaaaaaaaa		950

<210> 44

<211> 1004

<212> DNA

<213> Homo sapiens

<400> 44

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aatgttataa	agacagttgt	ccagtttcat	gaatcttgta	ggtttttggt	tgtttatttg	180
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tgctgcccc	gaagagatga	ttggacactc	tccagcgtgg	tggtggactt	tgctatctct	300
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ttaacaaatg	tctggatcat	cttttcttac	attggattat	aacgcaggaa	acactgtgaa	480
gtaagtaaag	ttggaattcc	caagtcmaag	accatttgaa	tatttacaag	tagatttgag	540
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tgaggctatg	ggctgataag	acgctgaaaa	accaggggtg	ggaccaagct	ggctaagact	660
gactggaccc	aatgtggtgc	tagattttgag	gtaggtttta	cctaggccct	cattatacac	720
ttattaacat	actaaatcac	acacccacca	gtgccatgac	agttctgaga	ccaatagtgt	780
atgtaaaaa	ggatggcacc	acagttccga	gaaatcacct	ttaccagga	attttcacga	840
atattcccat	ccttggttaa	agaaacecat	tgagatgaaa	ccccagaacc	cattgttctc	900
tctcgggtat	gccggaactc	ccctttcttg	agtgtgtact	ttctgctttg	caatacatct	960
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<210> 45

<211> 1681

<212> DNA

<213> Homo sapiens

<400> 45

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tgtagcatca	gggggatgga	ttttgtggcc	actgaggaga	ttgggtgggtg	cccatacgag	180
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gttttgatcc	ccactgtaat	taaactagta	tcttctaaac	acaaaatctt	cactctacct	360
cagtagcgct	tggcagctga	aatcttttct	atttgaata	tcccaccttt	ctatcttgaa	420
attttgtcca	agctaaatgc	ctcctactaa	tctctcgta	cctgcgggaa	cacaatgtgg	480
ctaccacatt	ggctaccagg	gctgtaggga	ggattgtctc	aaaatcctct	ccatttatca	540
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atggccaatc	tgtgctaggt	ttgctgggtc	gaaagtagga	tgatatgagc	tgatatagsa	660
gagaaatata	gggtacagtt	tctaccctga	ggggctgtat	tttagttggg	gagatacatg	720
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<212> DNA

<213> Homo sapiens

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<211> 1660

<212> DNA

<213> Homo sapiens

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<211> 1678

<212> DNA

<213> Homo sapiens

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aatgcaagaa	ttggaaattt	ttctatggta	gcctagttaa	ttgagcctgg	tttcaatgtg	1560
agaaccacgt	ttactgttat	tgtatttaat	tttcttttcc	ttttcaacaa	tctcctaata	1620
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<210> 53

<211> 1860

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (912)

<223> n equals a,t,g, or c

<400> 53

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<210> 54

<211> 1663

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (975)

<223> n equals a,t,g, or c

<400> 54

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<210> 55
 <211> 1632
 <212> DNA
 <213> Homo sapiens

<400> 55
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 ctctgctcgg cctggctgtg ggctcctact tggttcggag gtcccgcggg cctcagggtca 180
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 aaaaaactcg ag 1632

<210> 56
 <211> 2233
 <212> DNA
 <213> Homo sapiens

<400> 56
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<210> 57
 <211> 1963
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1540)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1935)
 <223> n equals a,t,g, or c

<400> 57						
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gaaaaataaa	aatcagctgt	tgtaatcacc	tagcaaaaaa	aaaaaaaaaa	aaaaccggca	1920
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<210> 58

<211> 1267

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1248)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1255)

<223> n equals a,t,g, or c

<400> 58

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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaackc	gcgggccgnaa	gcttntttcc	1260
cttttagt						1267

<210> 59
 <211> 1295
 <212> DNA
 <213> Homo sapiens

<400> 59
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 caggtctcct ccacggctgt cagcagcttc tcgtagagct tctcatagga ctcatatggt 840
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 gtgaccaga ggatgtacag tgacttctgg ctttctaggg tgctgtggca ggtgctgtgg 1200
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tcgag 1295

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 <211> 915
 <212> DNA
 <213> Homo sapiens

<400> 60
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<210> 61
 <211> 1445
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1047)
 <223> n equals a,t,g, or c

<400> 61
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 agtagtggtg ttatttctgt gcttctccct cctaacagaa tgtaaaacct ttgaaccag 180
 gtcagagagg tctttatttt catatcccct gtgatgtcta atttatttgg atttacagat 240
 aaatgatcgg taaacttttag aaacagcact ccagtttata gctctgtgct gtagacttac 300
 tgaacaacta cagtgaacc aattcaaaaa gggatatttt gtattatgat ttagtctcct 360
 acttccaagg ctagttttta aggctgtgaa ggggaagctga aaatgacaca gtgtttctgg 420
 gatgaccaga cagacactgt atccagagat gctgtctgcg cagcggggga tagtaaacc 480
 cttagtacaa cattaattgg catggtggtt tatgagttaa tgtaatacca aatattaaca 540
 taaataaaaa tatatttaag tgataactaa gctggacata tatcttaaaa gacaactaca 600
 gccagaaaaa caatgaacat tggtgtccta cagctatttt gtcactgtga tgatacctaa 660
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 aaaacttcat aaagctggca caggtaacat atttagtttt gtatatctgc tgtccaattt 780
 gagtctctaa aaattatctt agaatgaata tgaaattcgc aggtataaag accaagtttt 840
 cagaaataaa aaatgtccaa gtactttgaa acatctattt ttcactcatt attcagccta 900
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 tggccaggca cgggtgtcac gcctgtaatc ccagcacatt gggaggctga ggcaggcgga 1200
 tcacttgagg tcaggagttt gagaccagcc tggccaacat ggtgaaacct tgtatctgct 1260
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 aggttgaggc aggagaattg cttgaaccca ggaggcggag gttgcagtga accaagatca 1380
 caccactgca ctccagccwa ggtgatagag tgacactctc tcaaaaaaaaaa 1440
 ctoga 1445

<210> 62
 <211> 1100
 <212> DNA
 <213> Homo sapiens

<400> 62
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 ttttagtaac taccctttca tgtttcttta actcttgaaa tattttatta ggggttgagc 180
 attcatgatg gtacctggaa gtcagcaatt tatggttttg gagatcagag taatttgaga 240
 aaactaagaa atgtatcaaa tctgaaacct gtcccgctca ttggtccaaa attgaagaga 300
 aggtggccaa tttcttattg tcgggaactc aaagggttatt ccattccttt tatgggatct 360
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 gttcagtatg ctgcgtatgt aactgtggga ggcacacact ctgttattaa gctgatgttt 480
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 gatgctgcct cattcacgct gacattcttt ggtcaaggat acagccaagg cactgggtaca 660
 gataagaaca aaccaaatat caaaatttgt actcaggtga aaggaccaga ggtggctat 720
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 ctggaagaat taactgaagt cataacgtgc gtgaattaac agcttctcta tttgatattt 960
 gaaattcttc tgtaagcctg tctgagtgtg tgtggaaacg attgtcaaat ctaaaatate 1020
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<210> 63
<211> 1499
<212> DNA
<213> Homo sapiens
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<223> n equals a,t,g, or c
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<220> .
<221> SITE
<222> (66)
<223> n equals a,t,g, or c
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<221> SITE
<222> (84)
<223> n equals a,t,g, or c
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[illegible]

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<211> 655
<212> DNA
<213> Homo sapiens
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<400> 64
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gaagaggggac	agatccagat	tatggagcct	gtccagggtca	ctgtaggtga	ctcggtaata	240
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gagccttccc	caccgtaaac	tatggactct	agttcagttt	tatatgcaat	ggatcactac	600
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<210> 65
 <211> 1450
 <212> DNA
 <213> Homo sapiens

<400> 65						
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ccccctcagcc	ctgtggctgg	gggcagagct	cagactgtct	tctgaagatt	gatgtctatt	180
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gatgaactaa	tgaaaaaaga	tgaaccgcct	cttgattttc	ctgataccct	ggaaggattt	360
gaatatgctt	ttaatgaaaa	gggacagtta	agacacataa	aaactgggga	accatttggt	420
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aaaaaaaaaa						1450

<210> 66
 <211> 670
 <212> DNA
 <213> Homo sapiens

<400> 66						
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aaaaaaaaaa						670

<210> 67

<211> 1692

<212> DNA

<213> Homo sapiens

<400> 67						60
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<210> 68

<211> 655

<212> DNA

<213> Homo sapiens

<400> 68						60
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<210> 69
 <211> 1618
 <212> DNA
 <213> Homo sapiens

<400> 69							
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<210> 70
 <211> 1802
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1790)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1792)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1801)

<223> n equals a,t,g, or c

<400> 70

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tgaccaacat	ggtgaaaccc	cgtcttttact	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1740
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nt						1802

<210> 71

<211> 1292

<212> DNA

<213> Homo sapiens

<400> 71

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tcacagatt	tggaacatct	ttggctatta	tttctccaaa	tagtcacaca	tcgctcctcg	240
gattccagtt	acatatatat	tattagggtc	ttgaagttgt	cccatacctt	actgatgctc	300
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<210> 72
 <211> 883
 <212> DNA
 <213> Homo sapiens

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 <222> (8)
 <223> n equals a,t,g, or c

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 <222> (28)
 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

<220>
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 <222> (47)
 <223> n equals a,t,g, or c

<220>
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 <222> (873)
 <223> n equals a,t,g, or c

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ggaggtgccc	tctgcaagat	ggttctgacg	gccactgtcc	tcaacgtcta	tgccagcatc	300
ttcctcatca	cagcgctgag	cgttgctcgc	tactgggtgg	tggccatggc	tgcggggcca	360
ggcaccaccc	tctcactctt	ctggggcccga	atagccaccc	tggcagtgtg	ggcggcagct	420
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gtcttaagcc	gaattccagc	acactggcgg	ccgttactag	tggatccgag	ctcgggtacca	883
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<210> 73
 <211> 785

<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (716)
<223> n equals a,t,g, or c
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<220>  
<221> SITE  
<222> (731)  
<223> n equals a,t,g, or c
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<220>  
<221> SITE  
<222> (772)  
<223> n equals a,t,g, or c
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aattgttgat	aatgttcagg	tcatctatat	ccttaatggg	tttctccctg	attcttttat	180
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acatg						785

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<210> 74
<211> 2341
<212> DNA
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (161)  
<223> n equals a,t,g, or c
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<220>  
<221> SITE  
<222> (163)  
<223> n equals a,t,g, or c
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<220>
<221> SITE
<222> (170)
<223> n equals a,t,g, or c
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<221> SITE  
<222> (1229)
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<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2243)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2309)

<223> n equals a,t,g, or c

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tctactaaga aaaactataa accctgaaca ttatatataa nanatatgan aactcagacc      180
tggagagacc aaggcagatg tggtagggac ttmataaatt gtatagtgat gaatcctcta      240
agttttcttt tctgctttat aatttgcaga cttttagctg aaaatgccat caacatagaa      300
atactaacag gcacatatga gaatttccca acaaaaagcct attatttttag gcaaagggtca      360
aggaaaatagt ctaccaaggc agaaaacatt tgcacaataa ccactctact gtagtcaagt      420
accacagaaa acactattac ctcaagtga gagcttagat ctttagayct tcataccagc      480
caggctgtga caagggtgtc caaccctcct ccagaatagt atctcagaat agcagaagtt      540
ggaactttca tccccaaact gtggtataaa gccctcact ctccttcac accttgatat      600
gactggagag caaatgggga gctggatcta ctctaaaagc agcaatgaag aagcaccctc      660
ctttccatac cagggtggtg ttgtggaggc catgtgggaa acagtaacaa gtcacttctt      720
cctccgagac aggctatcag tggaggccca gtggtgaccc agaatccacc ctccagccag      780
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tatgaamcaa atttaaaaat tatctyagcc aaaaaattaa aatatwtgaa agaactgaat      1200
ggacatttta gaactgaaac ttacaatanc cacataaaaa attcatgaag gtaagcagga      1260
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a

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<210> 75

<211> 1882

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (755)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1237)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1866)

<223> n equals a,t,g, or c

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<400> 75
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ataatgatgt aatggctagt ctcttgagaa cttgctgtgt tccatacatt gtactaagca      180
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caaccataga aaatactacg tgtatatata tgtttatagt ctcaaaaaaa aaaaaaaaaa      1860
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<210> 76

<211> 2892

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (858)

<223> n equals a,t,g, or c

<400> 76

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aagggcggcc	gc					2892

<210> 77

<211> 1673

<212> DNA
<213> Homo sapiens

<400> 77
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 aatgttttaa aaaagatgca gaatcatcat ttatgtcaga gctactgact cacacttaaa 240
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<210> 78
 <211> 1461
 <212> DNA
 <213> Homo sapiens

<400> 78
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<210> 79
 <211> 1517
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1145)
 <223> n equals a,t,g, or c

<400> 79						60
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tgttgagaca	ctaactctgag	atagtgggtat	ctctggaaag	cagtttagca	ctgggtgagtt	240
tggactttca	tggcaggctg	ccttggttca	tatcttttgg	taatgatact	tatcctctgt	300
ragggccatt	tctttatttg	tggaaatgaa	gacaatagag	tgcttagata	taatttagaa	360
caatgtccgt	cacatagtaa	acacgtaata	aacggtagct	cttattgtta	ttattattac	420
tattattacc	ttgaagacag	gggtctctgtc	ttgttcatca	ttccatctcc	agctcttagc	480
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aaaaaaaaaa	ctcgtag					

<210> 80
 <211> 574
 <212> DNA
 <213> Homo sapiens

<400> 80						60
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<210> 81
 <211> 1455
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (390)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (456)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1100)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1293)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1409)
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<400> 81						
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<210> 82
 <211> 1640
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (687)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (764)
 <223> n equals a,t,g, or c

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<210> 83
 <211> 525
 <212> DNA
 <213> Homo sapiens

<400> 83
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 caagatataa atgccagtca tttattaaaa aaaaaaaaaa aaaaa 525

<210> 84
 <211> 837
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (717)
 <223> n equals a,t,g, or c

<400> 84
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<210> 85
 <211> 1574
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (19)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (873)
 <223> n equals a,t,g, or c

<400> 85
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<210> 86

<211> 1628

<212> DNA

<213> Homo sapiens

<400> 86

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cacacatata	cacacacaca	catatatata	atcagctgtc	catagcctac	tcactctctga	900
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accaatatta	taatgtccct	gacaataaca	taacaaaccc	agctctaaca	cctacagatt	1020
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ttcaacctcc	tgcccaccct	gtccagctca	ggacatcaac	aaccttttat	ggaaaaccacc	1140
gaggtcagac	tggatgcagt	cagttggagt	gattcatcat	gactagtcca	attaagagct	1200
gatcaccttc	aaacagctct	gactttggaa	gcaattgatt	tgactgcctc	tttgggtcaca	1260
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tcctctccaa	ctatgagtca	cattttccct	caatatctcc	tatcttactt	tttgagtgat	1440
cagccctgac	tttcaagtct	aaattttctc	tccacgccaa	aaacaaaaca	aaaacagaaa	1500

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aacaaaaaaaa gctttttgct gtatcacacc acctaaagtt tggctagtga acatgagcag      1560
acctcttctg aatcccacac atcagccatg ctcttgccagc catgtagagg agctggagggt      1620
gggtggggc                                         1628

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<210> 87
<211> 1795
<212> DNA
<213> Homo sapiens

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<400> 87
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cagatgatac ttccctacat ttgttagagta gaatgtggtt tatgtctttt attagtatat      120
atgactggcc ctatatcatc taatagatag tccttttcat catggagatg aattattgtg      180
ggtccagagt tttgtatatg tctctaacc tgctaggagag tccaatcata cccttgtggg      240
cctatacttc agccacacag gctgcagctt tagtgacatc acacgtgtgg aaaccctctc      300
tagaggctca ccagatcaat atttctcctg aaccttcaat acattatgat agatggcaca      360
ctcagagtaa ttgtagttaa ataaattctc ttcaataaat gggttctggaa aaacaatatc      420
tatatgcaga agaatagaag aagactgccc acttctaaca atatacaaaa atcaaatgaa      480
aattaaagaa ttaaattctaa gacctgagc tatgaagcta ctacaagaaa actttgggaa      540
aaatcttcag gacattgacc tgggcaaaga ttttttgagt aatactccat aagtacaggc      600
aaccaaagca aaaaatgaac aaatgggac acatcaagtt aaaaagcttc cacacaacaa      660
agaaaacaat caaagtgaag agacaaccca cagaatggga gaaaatattt gcaaaactacc      720
catttgaatg ggattaataa tcagaatata tgaggagctc aaacaactct atagaaaaaa      780
atataataat ctgatcaaaa aatgggcaaa agatttgagt agacattcct caaaagaaga      840
catgcaaatg gtaaacaaa atattgcaa gtactcaaca tcactgatca tcagagaaat      900
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aactaaaaat ggagctacta tataatccag caatttcacg cctgggtata tacccaaaaag      1140
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caatagtcaa gatttggaag caacctgagt ccacaaacag ataaatgaat aaagaaaatg      1260
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gttgggggtga aggatgtggg gatggttaat ggggtaccaa aattgaatga ataaggccta      1560
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actaagagta taattggatt gtttgaaca caaagataaa tgcttgaggg gatggatgtc      1680
tcattttcca ttatgtgatt attacacatt gcattgcctat ataaaacatc tcatatctca      1740
tgcaccccat caatataaac acctactgtg tatccacaaa aaaaaaaaaa aaaaaa      1795

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<210> 88
<211> 1864
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (1844)
<223> n equals a,t,g, or c

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<400> 88
cccaagccag ccatttatta caagaagcaa caggttattg acattacatg tttgaaaatt      60
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cttctgcag aaagtctttt ctttactata attgagtaat tcataattag agtcacatgt      180
ccagtagcat ttctaatttt gagcattcac cttgctacct ttaaaaaaca tctgagtttt      240

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aagtggcctt	tttatcatca	tacacatgtg	catacaaaga	agggacttgg	cagtttataaa	300
gccacatata	ttcactttta	ttgccctaaa	tttacatgaa	acagacatac	tggcaaaactc	360
acatatgtgt	ggtgctaacc	ttatatattca	tagtggttggc	atattcccct	tttcttagat	420
tcttactccg	aaatataggt	acacatccct	tgctctgtgc	agaggggaatt	acatccctttt	480
tcctctccta	caaaaacatg	ctttattaag	tatccatcat	tacttttcctt	tatgctcgct	540
caatatgcaa	tgtgctgtta	ttctaccatg	taccttaa	aaaggatgat	ggcaaagtta	600
tttaccatgt	agaaaccatt	ttctttctag	aaacaatagc	tcagcctcac	tgtagcagct	660
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agctttggac	aatatcccaa	ttatggcagg	gaacagggtg	ggaactaaga	tcagttacaa	1020
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ttactattaa	attatcattt	agccagttat	ctgcaaatat	atagtatgta	ttgtctcttc	1560
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aatattttta	ccaacagtaa	agtagagact	taatgaaaaa	accttagtgt	gatttttaata	1680
taatttgcac	atttttagttg	tataaagttt	taatgtaaaa	tgtccattat	tgaagggaaa	1740
agatctttca	ataaaaaata	cccacgaaaa	aaaaaaaaaa	aaaaagggcg	gccgtcttag	1800
aggatccaag	cttacgtacg	cgtgcatgcg	acgtcatagc	tctnaaaagg	ggactccaga	1860
gctt						1864

<210> 89
 <211> 1983
 <212> DNA
 <213> Homo sapiens

<400> 89						
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tggtgtacac	ttacacaaat	ttgtgcagat	tatttgtcta	gaaggaaagt	catacagggt	120
gggcagtctg	gtcacaaaaa	gggacagggg	ttgagggggg	tctgggtgact	gtgatgagg	180
cctcactctc	aggcctccgg	tcccactgaa	ggtcagatga	aaggtagtct	tccttgccgg	240
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cacgttagcg	tatgccacag	ctttgttgaa	tgaaaaagag	caatcaggaa	gcagtaattg	360
gtcggagagt	agtccctgca	atgagaacgg	agacaggcat	ctacagcagg	tataacggtc	420
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gcaggtagtc	ccgatgaagc	cagggcacag	ggggattcgt	tccagcttgt	tcactttatt	720
ctgccttgcc	aggttactga	aagtcctctg	tttgcctctc	ccagccttcc	tggaaatgtg	780
gactcttgaa	agaaaagctc	ccgtgctctt	gaagtatacc	tgcttgccag	gggagtccaa	840
gaaaattttg	acatgtattt	ttaaaaaaag	aaaaaaaaac	agcttttaata	ccaatcatta	900
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tgtcagttaa	tcattacgtc	tttccaatag	tctgttaactt	tccttaacag	cagtctcttc	1020
tgtggtccct	tcacagtact	tggtacagaa	taggccccat	taaatgaatg	ttactgatgt	1080
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gcctctcttc	tgccctgtca	aagcctctct	tctccctggt	gcccctgcct	tctttctctt	1560
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tagttttcct	caaacccttc	tggtgtttcc	ttctctgtct	ccttcttagt	actgcctctt	1860
ctggaccacc	agtaaagggt	tgtggagtct	ctaactgtta	tcctcctgcc	ctcactccat	1920
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cgc						1983

<210> 90

<211> 1957

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (349)

<223> n equals a,t,g, or c

<400> 90						
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gtttcacttt	ctctcttctg	tgatgttggt	tcctctgaat	gtatgagctg	ctttactcct	120
aagtttgctg	acattgttgc	aaatgcttat	cagaatgaat	cctatatattt	tatttaaaat	180
gatcgtgtca	ttttcaatca	ggcagcccat	ccaaacatgc	ggacctatta	tttctgcaat	240
gatacaggaa	aggaaatgga	gttgtggatg	aaagccatgt	tagatgctgc	cctagtagac	300
acagaacctg	tgaaaaggta	aaggcttgta	gaaaaaatga	tggtgattnc	cacttccatt	360
ttattccatg	ccttgcaagt	atttcaactg	catagtmcat	atcatttttaa	tagtcatggg	420
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acattttgtt	agtttgcatg	accacctaca	tttttatctc	acttttcttc	tttttctctt	540
ttattcattt	tcacctatcg	gtgtactggg	gtgaatccag	aatcctaaca	ttcaaactga	600
atgttctttc	ttcttacaga	attaccttta	atttccgggt	agtacgtttt	taattgttac	660
cttaaagcta	cacagatttt	tatcctttga	gatagtgttt	ttaagattct	aaatcttaga	720
agagagttta	tttttatgaa	gttaatttgt	gttttctgtt	aatagtgtgt	tgatgtttct	780
aaagtgtgat	gaattacagt	aagaamcttt	gatartttca	ttttttcaac	atttctgatt	840
aatttttatt	gtttttgtaa	tgaatgtctc	cagaaaatag	ttcgtcaagc	atttagattg	900
tttccaaatc	cacttcttgg	tgaattgtac	cttttttata	ttgaaactcc	actactcaga	960
tyccttgata	atatagataa	gtgctgttaa	aattgaccca	tgtatttttc	cctgcttgaa	1020
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tacataaata	caagtagtat	aatgtgcttt	ttaaaaaata	tgtattcctg	taattcgaag	1140
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tgtaagaaaag	atgctaattg	gcactctttt	tcctctctct	tttttttccc	tcttctcagg	1260
aaattagggg	ttgttmcagt	atacatctag	tcctttgttt	ttcttattct	agtgtgcatt	1320
ttaataaagt	cttggctttt	tggctaaaag	acttaggttg	atgctgtgta	tttgtgctat	1380
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acttttgcca	catgcatatt	gcaggatgag	agcagataga	aggaaaatct	gtttttggaa	1560
ttgcatgtgt	aaaaattacc	tgagtagcat	aaagatgagg	tggttagcac	tgataacgag	1620
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gtaccacact	cttgtagtcc	ctgctactcg	ggaggctgaa	gcattgaggat	cacttgaatc	1860
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gtgagaccct	gtcaaaaaaa	aaaaaaaaaa	aactcga			1957

<210> 91
 <211> 573
 <212> DNA
 <213> Homo sapiens

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<400> 91
ggcagcagtg aatattaact gtgttatttt tatacacttt ttaagcctta actcgccatt      60
gatttaccag tttaacgttt cctgggggtt ctttgcccat ggggttctct gccccaccc      120
ccggcccttt gtttgacttg cgtcgtctga tactcagtat tgtagctttt tgtccgcatg      180
ttactccctg taaatacgct gttatacata ctgttaacac ccctttgctt tttctatggg      240
acctccaggc caccatattt agaactagtt accttattaa aaaagaaaaa acagtctgtt      300
ggcttctcag tctgcatctt ggaggcaggg aggtgagggc aggtgcccct cagacacttc      360
aggaaggtag tttgcattct atttaaaaaa gggagtgggg agcaaatgaa aatcaaatgt      420
ggggggaaaa cactaaaggg ggcaagaaac aaaggaatta caaacctctc gctctttgta      480
tttctctgtt gtgaagaata aactgtacct gcacccggaa aaaaaaaaaa aaaaaaaaaa      540
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa                               573
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<210> 92
 <211> 1212
 <212> DNA
 <213> Homo sapiens

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<400> 92
gccctcccca gctagaatga acattctgcc aggcagggac caatatgttt tatctctgaa      60
tctctaggac agtgctaata aaataataga ccatcagtaa tattcgaata catgtatgga      120
taagggattt gttccaggtc acatagctag ttgttgctaa tagaaaggac aagtatgtag      180
ataccagcca cagttttttt agtatctcta cgccctattg cctttccttt aactttaagc      240
ttggtcttac ccatattttc tgtagtttaa ccttgctttt gatccctcta aggggctgtt      300
ttatataaac tcatgatcat tgttcttttt tctctctctt tcttccctt ccttccctcc      360
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ttttttcact tgtaggcttc tgtaatttaa tcaatatggt acttattaag cactgagtca      480
aatgtctaac actgtactgt atcctatgag aaatgaaata gaagcagatt gaagacatac      540
cattacttga ggaattttaat attttattag ccccttcttc tcaatggcct ttgtgctctt      600
ctggttcttg ttatctgtgt tcttttctgg ccttctgcct tgaccatttc ttttggcccc      660
tgccttgga attagtacat aattttaccct cattttggct tcacatgatc cagctacagc      720
aagacccaaa taagaaaaga tggtacagcg acattgatga agttggtcta acacagaaac      780
tgaaagagtg agagagacag aagaaagaag catgaagtag ggaatgagga gttagaagtg      840
tcaccaacgg ggaattacat gtgacccaaa aatcaaaaga ttatgactgg gtacatatga      900
aaaataggta caggccaggt gtagtggttc acacctgtaa tcccagcact tggggaagcc      960
gargtgggtg gattgcttga gcccaggagt ttgagaccag cctgggcaac atgggtgaaac      1020
cccctctcta caaaaaatmc aaaaatttagc csggcatggt ggcacacaac tgtagtctca      1080
gctactcagg aagctgaggt gggaagayca ttgagcccag raggcaraag ttgcagttag      1140
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aaaaaaaaaa aa                               1212
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<210> 93
 <211> 1144
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (849)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (865)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1087)
 <223> n equals a,t,g, or c

<400> 93
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 tggaagtaac actccatcat ctttgctgtg ttctattggg tagaagcaag tcactaggct 120
 agcccatact actgggagag gattacacaa gaacatgtgg gtagaaatgg gaataacttc 180
 agctgtccaa caatcttaca ggtatatcct tcatcaatca ttagctataa gtaatatggg 240
 gtttccatta gtcaaagatc tgtgtgtcag caagccagga cttcaatatt ttttaaagat 300
 ggtctttcta gagaaaaata cagtaataat gggatgacag aaggccatgt gttttgtttt 360
 gctttgtgtt gtgtcttggg tttcctctct atgactttgc ttgttaycag cttagaaaaa 420
 actaacgcag gtgggggtgat agcatggggc tgtatctcag tctctgtgca gacacaaact 480
 ttttcctctc ctaccagtta ccaaacattg tttattgcct gtaagctctg gaatcccaga 540
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 ttggagcttg ttttagatta atackttaca gagtagtttt acatgaataa gcttaaacat 660
 tttccccga ttttagttct ctggcttacc agaaaaatga aaaacaacaa caacaaaatc 720
 cccaaaactg agaaccaggg aatgatagac aacaaacttg tgttttaatt ttcattgattc 780
 tagttgttca acctgttttt ttgacactct gtatctgcat tcattttattc actaaaaaga 840
 tgcttagtna attgtaagta tcatnttagg cactgtgaat tcattgataa gatattctct 900
 ctctctctct ttttttcttt tgagatggag tctctgtctg ttgcccaggc tggagtacag 960
 tggcatgatc tcgtcggctc actgcagcct ctgcctcccg ggttcaatcc attctcctgc 1020
 ctgagctact ccagcggctg aggcagaaga attgcttgaa cctgggcagc ggaggttgca 1080
 gtgagcnaag attacgccac tgcactccag tcttttctcaa aaaaaaaaaa aaaaaaaact 1140
 cgag 1144

<210> 94
 <211> 1274
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (722)
 <223> n equals a,t,g, or c

<400> 94
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 aggccggggc gggacgagga gagctgcggg gacaacgcct gtggctgggt ccggagtgcg 120
 ggtgcggcgc gggacaagcg ggcagcatgc tcagggcggt cgggagccta ctgcgccttg 180
 gccgcgggct aacagtccgc tgcggccccg gggcgccctc cgaggccacg cgacggccccg 240
 caccggctct tccgccccgg ggtctcccct gctactccag cggcggggcc cccagcaatt 300
 ctggggccca aggtcacggg gagattcacc gagtccccac gcagcgcagg ccttcgcagt 360
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<210> 95

<211> 1780

<212> DNA

<213> Homo sapiens

<400> 95

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<210> 96

<211> 1794

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (457)

<223> n equals a,t,g, or c

<400> 96

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<210> 97

<211> 2065

<212> DNA

<213> Homo sapiens

<400> 97

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 <211> 1154
 <212> DNA
 <213> Homo sapiens

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 <211> 615
 <212> DNA
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<400> 99						
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 <213> Homo sapiens

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 <211> 1756
 <212> DNA
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<400> 101						
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<210> 102

<211> 1416

<212> DNA

<213> Homo sapiens

<400> 102

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1416

<210> 103

<211> 704

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (287)

<223> n equals a,t,g, or c

<400> 103

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<210> 104

<211> 1259

<212> DNA

<213> Homo sapiens

<400> 104

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<210> 105

<211> 1804

<212> DNA

<213> Homo sapiens

<400> 105

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<210> 106

<211> 971

<212> DNA

<213> Homo sapiens

<400> 106

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<210> 107

<211> 821

<212> DNA

<213> Homo sapiens

<400> 107

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<210> 108

<211> 1576

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (804)

<223> n equals a,t,g, or c

<400> 108

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<210> 109

<211> 1779

<212> DNA

<213> Homo sapiens

<400> 109

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<210> 110

<211> 1365

<212> DNA

<213> Homo sapiens

<400> 110

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<210> 111

<211> 1957

<212> DNA

<213> Homo sapiens

<400> 111

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tccatcaacc	tgagacagga	ctcagtatat	ggttcttggg	tatgccctac	caggtggaat	1860
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaa			1957

<210> 112

<211> 1135

<212> DNA

<213> Homo sapiens

<400> 112

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tcagcaaact	catcttctgc	ttctttgtct	tcggcgccgt	cttggtgtgt	gtgggagtc	180
tgtctccat	ctttgggttc	caggcatgcc	aatataagcc	cctcccagac	tgccccatgg	240
tgtcaaggt	ggcggggctg	catgtgccgt	ggttgggctt	ggggctgtga	tcctggcccg	300
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ccgagccttc	atctgtggag	agagccgcca	gtttgcccag	tgcttatctt	ttgggtttct	420
gttcttgaca	agcggcatgc	tcatcagcgt	cctgggcatt	tgggtccctg	gatgtggctc	480
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cgtgggtgcc	catgttaaga	agagaaacac	gctgaatgct	ggccaggatg	cctctgagag	660
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aatattttcca	ccccctccac	caccttactt	tctgaatctt	tcagcttctg	cggtcgtctg	780
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caactatggg	acccaacttc	cagaggggtg	agcctctgaa	agagactgtg	aatctatata	900
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attgcctcct	agatatgaag	aaaaagaaaa	tgtgcagctt	acattcttgc	ctctatcttc	1020
tgagccttcc	ccaccgtaaa	ctatggactc	tagttcagtt	ttatatgcaa	tggatcacta	1080
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<210> 113

<211> 1446

<212> DNA

<213> Homo sapiens

<400> 113

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taacaaccgc	acgagggagt	tcgactggcg	aactggaagg	ccacgcctcc	tcccgcctgc	120
cccctcagcc	ctgtggctgg	ggcagagctc	agactgtctt	ctgaagattg	atgtctatct	180
ccttgagctc	tttaattttg	ttgccaattt	ggataaacat	ggcacaaatc	cagcagggag	240
gtccagatga	aaaagaaaag	actaccgcac	tgaaaagattt	attatctagg	atagatttgg	300
atgaactaat	gaaaaaagat	gaaccgcctc	ttgatttctt	gataccctgg	aagggttgaa	360
tatgctttta	atgaaaaggg	acagttaaga	cacataaaaa	ctgggggaacc	atttgttttt	420
aactaccggg	aagattttaca	cagatggaa	cagaaaagat	acgaggctct	aggagagatc	480
atcacgaata	tgtatatgag	ctcctggaaa	aggattgtaa	tttgaaaaaa	gtatctattc	540
cagtagatgc	cactgagagt	gaaccaaaga	gttttatctt	tatgagttag	gatgctttga	600
caaatccaca	gaagctgatg	gttttaattc	atggtagtgg	tgttgtcagg	gcagggcagt	660
gggctagaag	acttattata	aatgaagatc	tggacagtgg	cacacagata	ccgtttatta	720
aaagagctgt	ggctgaagga	tatggagtaa	tagtactaaa	tcccaatgaa	aactatattg	780
aagtagaaaa	gccgaagata	cacgtacagt	catcatctga	tagttcagat	gaaccagcag	840
aaaaacggga	aaagaaaagat	aaagtttcta	aaagaaacaaa	gaaccgacgt	gatttctatg	900
agaactatcg	taacccccaa	agagaaaaag	aaaggatgca	attgtatatc	agagaaaatg	960
gttctcctga	agaacatgca	atctatgttt	gggatcattt	catagctcag	gctgctgctg	1020

agaatgtggt	tttcgttgct	cacagctatg	gaggacttgc	ttttgttgaa	ctgcaactca	1080
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ccccttaaat	ttatacataa	tcagcttctt	gtatggaccc	aaattggaga	aatgtaattc	1380
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aaaaaa						1446

<210> 114

<211> 733

<212> DNA

<213> Homo sapiens

<400> 114

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aggtgccctc	tgcaagatgg	ttctgacggc	cactgtcctc	aacgtctatg	ccagcatctt	180
cctcatcaca	gcgctgagcg	ttgctcgcta	ctgggtggtg	gccatggctg	cggggccagg	240
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cctggtgacg	gtgcccacag	ctgtcttcgg	ggtggarggt	gargtgtgtg	gtgtgcgcct	360
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cctgcagcgg	cggcaacggc	ggcggcagga	cagcagggtc	gtggcccgtc	ctgtccgcct	540
cctggtggct	tccttcttcc	tctgctggtt	tcccaaccat	gtggtcactc	tctggggtgt	600
cctggtgaag	tttgacctgg	tgccctggaa	cagtactttc	tatactatcc	agacgtatgt	660
cttcctgtc	actacttgc	tggcacacag	caatagctgc	ctsaaccaw	tagcytaygt	720
cttaagcmga	att					733

<210> 115

<211> 1518

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1146)

<223> n equals a,t,g, or c

<400> 115

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tggttgacaa	ctaactctgag	atagtggat	ctctggaaaag	cagtttagca	ctggtgagtt	180
tggactttca	tggcaggctg	ccttggttca	tatcttttgg	taatgatact	tatcctctgt	240
raggcccatt	tctttatttg	tggaaatgaa	gacaatagag	tgcttagata	taatttasca	300
acaatgtccg	tcacatagta	aacacgtaat	aaacggtagc	tcttattggt	attattatta	360
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aaacagtggc	agtgttttgg	tgatcatttg	ctttgcaaca	agccactccc	caaagttagt	720
ggcctaaaac	aatttaatac	cagttcatgt	tctggctaca	acaatacaca	tcctctcat	780
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cttaagatct	tatcctctga	agtaggttta	gggacaaaca	agtcttctca	gggtacttct	900
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gctgaggcag	gagaattgct	tgaatccgag	aggcagagg	tgtagtgag	cagagattac	1440
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aaaaaaaaaa	actcgtag					1518

<210> 116

<211> 1054

<212> DNA

<213> Homo sapiens

<400> 116

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attttaattg	tttaaat	attgtgaatc	tttttaagga	aggctgagct	gttgctacaa	660
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aagctgctag	aatatgagag	tgataattta	ggaatgagtt	gattaaagaa	aataacaaag	780
tagtttacta	aggaattaat	aatagcaaat	aaaagggtta	acaaacaaca	ataaatattc	840
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cattccgata	agataagttc	atgtgaccac	gtgattatta	tttaatacat	ctactgataa	960
ctctataata	gaaagtggca	gatttttagat	aaagggtttg	tgatttttaa	ggttgatatt	1020
aacaggtagt	atcataaaaa	aaaaaaaaaa	aaaa			1054

<210> 117

<211> 921

<212> DNA

<213> Homo sapiens

<400> 117

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tggaacgact	ttgtccacga	gatgctggcc	aaggcgagg	tgacgcgcgt	ccagggtgtg	180
cctgagagcg	acgtgggtgga	agtcctacgt	caccctggag	ccgtgggtgtt	tgggcgcgct	240
cggctagcct	tgatgtaccg	aatgcagtgt	caaataattga	caagtttgaa	gagaagcttc	300
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 aaaaaaaaaa aaaaaaaaaa a 921

<210> 118

<211> 243

<212> PRT

<213> Homo sapiens

<400> 118

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Ala Trp Asp Thr Pro Thr Ile Val Ser Arg Lys Glu Trp Gly Ala Arg
 20 25 30

Pro Leu Ala Cys Arg Ala Leu Leu Thr Leu Pro Val Ala Tyr Ile Ile
 35 40 45

Thr Asp Gln Leu Pro Gly Met Gln Cys Gln Gln Gln Ser Val Cys Ser
 50 55 60

Gln Met Leu Arg Gly Leu Gln Ser His Ser Val Tyr Thr Ile Gly Trp
 65 70 75 80

Cys Asp Val Ala Tyr Asn Phe Leu Val Gly Asp Asp Gly Arg Val Tyr
 85 90 95

Glu Gly Val Gly Trp Asn Ile Gln Gly Leu His Thr Gln Gly Tyr Asn
 100 105 110

Asn Ile Ser Leu Gly Ile Ala Phe Phe Gly Asn Lys Ile Ser Ser Ser
 115 120 125

Pro Ser Pro Ala Ala Leu Ser Ala Ala Glu Gly Leu Ile Ser Tyr Ala
 130 135 140

Ile Gln Lys Gly His Leu Ser Pro Arg Tyr Ile Gln Pro Leu Leu Leu
 145 150 155 160

Lys Glu Glu Thr Cys Leu Asp Pro Gln His Pro Val Met Pro Arg Lys
 165 170 175

Val Cys Pro Asn Ile Ile Lys Arg Ser Ala Trp Glu Ala Arg Glu Thr
 180 185 190

His Cys Pro Lys Met Asn Leu Pro Ala Lys Tyr Val Ile Ile Ile His
 195 200 205

Thr Ala Gly Thr Ser Cys Thr Val Ser Thr Asp Cys Gln Thr Val Val
 210 215 220

Arg Asn Ile Gln Ser Phe His Met Asp Thr Arg Asn Phe Cys Asp Ile
 225 230 235 240

Gly Tyr Gln

<210> 119
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 119
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 Asn Cys Cys Ser Ile Ser Leu Gly Arg Leu Thr Tyr Pro Gly Gly Phe
 20 25 30
 His Leu Lys Leu Asp Pro Leu Glu Leu
 35 40

<210> 120
 <211> 526
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (466)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 120
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 1 5 10 15
 Leu Ala Leu Gly Val Thr Leu Leu Lys Cys Leu Leu Ile Pro Thr Tyr
 20 25 30
 His Ser Thr Asp Phe Glu Val His Arg Asn Trp Leu Ala Ile Thr His
 35 40 45
 Ser Leu Pro Ile Ser Gln Trp Tyr Tyr Glu Ala Thr Ser Glu Trp Thr
 50 55 60
 Leu Asp Tyr Pro Pro Phe Phe Ala Trp Phe Glu Tyr Ile Leu Ser His
 65 70 75 80
 Val Ala Lys Tyr Phe Asp Gln Glu Met Leu Asn Val His Asn Leu Asn
 85 90 95
 Tyr Ser Ser Ser Arg Thr Leu Leu Phe Gln Arg Phe Ser Val Ile Phe
 100 105 110
 Met Asp Val Leu Phe Val Tyr Ala Val Arg Glu Cys Cys Lys Cys Ile
 115 120 125
 Asp Gly Lys Lys Val Gly Lys Glu Leu Thr Glu Lys Pro Lys Phe Ile
 130 135 140
 Leu Ser Val Leu Leu Leu Trp Asn Phe Gly Leu Leu Ile Val Asp His
 145 150 155 160

Ile His Phe Gln Tyr Asn Gly Phe Leu Phe Gly Leu Met Leu Leu Ser
 165 170 175
 Ile Ala Arg Leu Phe Gln Lys Arg His Met Glu Gly Ala Phe Leu Phe
 180 185 190
 Ala Val Leu Leu His Phe Lys His Ile Tyr Leu Tyr Val Ala Pro Ala
 195 200 205
 Tyr Gly Val Tyr Leu Leu Arg Ser Tyr Cys Phe Thr Ala Asn Lys Pro
 210 215 220
 Asp Gly Ser Ile Arg Trp Lys Ser Phe Ser Phe Val Arg Val Ile Ser
 225 230 235 240
 Leu Gly Leu Val Val Phe Leu Val Ser Ala Leu Ser Leu Gly Pro Phe
 245 250 255
 Leu Ala Leu Asn Gln Leu Pro Gln Val Phe Ser Arg Leu Phe Pro Phe
 260 265 270
 Lys Arg Gly Leu Cys His Ala Tyr Trp Ala Pro Asn Phe Trp Ala Leu
 275 280 285
 Tyr Asn Ala Leu Asp Lys Val Leu Ser Val Ile Gly Leu Lys Leu Lys
 290 295 300
 Phe Leu Asp Pro Asn Asn Ile Pro Lys Ala Ser Met Thr Ser Gly Leu
 305 310 315 320
 Val Gln Gln Phe Gln His Thr Val Leu Pro Ser Val Thr Pro Leu Ala
 325 330 335
 Thr Leu Ile Cys Thr Leu Ile Ala Ile Leu Pro Ser Ile Phe Cys Leu
 340 345 350
 Trp Phe Lys Pro Gln Gly Pro Arg Gly Phe Leu Arg Cys Leu Thr Leu
 355 360 365
 Cys Ala Leu Ser Ser Phe Met Phe Gly Trp His Val His Glu Lys Ala
 370 375 380
 Ile Leu Leu Ala Ile Leu Pro Met Ser Leu Leu Ser Val Gly Lys Ala
 385 390 395 400
 Gly Asp Ala Ser Ile Phe Leu Ile Leu Thr Thr Thr Gly His Tyr Ser
 405 410 415
 Leu Phe Pro Leu Leu Phe Thr Ala Pro Glu Leu Pro Ile Lys Ile Leu
 420 425 430
 Leu Met Leu Leu Phe Thr Ile Tyr Ser Ile Ser Ser Leu Lys Thr Leu
 435 440 445
 Phe Arg Lys Glu Lys Pro Leu Phe Asn Trp Met Glu Thr Phe Tyr Leu
 450 455 460
 Leu Xaa Leu Gly Pro Leu Glu Val Cys Cys Glu Phe Val Phe Pro Phe

465		470		475		480
Thr Ser Trp Lys Val Lys Tyr Pro Phe Ile Pro Leu Leu Leu Thr Ser						
	485			490		495
Val Tyr Cys Ala Val Gly Ile Thr Tyr Ala Trp Phe Lys Leu Tyr Val						
	500		505		510	
Ser Val Leu Ile Asp Ser Ala Ile Gly Lys Thr Lys Lys Gln						
	515		520		525	

<210> 121

<211> 354

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (188)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (189)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (225)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (229)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (231)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 121
Met Glu Asp Gly Val Leu Lys Glu Gly Phe Leu Val Lys Arg Gly His
 1           5           10          15

Ile Val His Asn Trp Lys Ala Arg Trp Phe Ile Leu Arg Gln Asn Thr
      20           25           30

Leu Val Tyr Tyr Lys Leu Glu Gly Gly Arg Arg Val Thr Pro Pro Lys
      35           40           45

Gly Arg Ile Leu Leu Asp Gly Cys Thr Ile Thr Cys Pro Cys Leu Glu
      50           55           60

Tyr Glu Asn Arg Pro Leu Leu Ile Lys Leu Lys Thr Gln Thr Ser Thr

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65	70					75					80				
Glu Tyr Phe Leu	Glu Ala Cys Ser Arg	Glu Glu Ala Gly Cys Leu Gly													
	85	90											95		
Leu Xaa Arg Xaa	Pro Gly Leu Phe Met	Gln Gly Ser Xaa Gly Lys Val													
	100	105											110		
Gln Gln Leu His	Ser Leu Arg Asn Ser	Phe Xaa Leu Pro Pro His Ile													
	115	120											125		
Xaa Leu Xaa Arg	Ile Val Asp Lys Met	His Asp Ser Asn Thr Gly Ile													
	130	135											140		
Arg Ser Ser Pro	Asn Met Glu Gln Arg	Ser Thr Tyr Lys Lys Xaa Phe													
	145	150											155	160	
Leu Gly Ser Ser	Leu Val Asp Trp Xaa	Ile Xaa Xaa Ser Phe Xaa Gly													
	165	170												175	
Ser Arg Leu Glu	Ala Val Xaa Leu Ala	Ser Met Xaa Xaa Glu Glu Asn													
	180	185												190	
Phe Leu Arg Ser	Val Ala Val Arg Cys	Met Gly Gly Ile Arg Ser Gly													
	195	200												205	
Asp Leu Ala Glu	Gln Phe Leu Asp Asp	Ser Thr Ala Leu Tyr Thr Phe													
	210	215												220	
Xaa Glu Ser Tyr	Xaa Lys Xaa Ile Ser	Pro Lys Glu Glu Ile Ser Leu													
	225	230												235	
Ser Thr Val Glu	Leu Ser Gly Thr Val	Val Lys Gln Gly Tyr Leu Ala													
	245	250												255	
Lys Gln Gly His	Lys Arg Lys Asn Trp	Lys Val Arg Arg Phe Val Leu													
	260	265												270	
Arg Lys Asp Pro	Ala Phe Leu His Tyr	Tyr Asp Pro Ser Lys Glu Glu													
	275	280												285	
Asn Arg Pro Val	Gly Gly Phe Ser Leu	Arg Gly Ser Leu Val Ser Ala													
	290	295												300	
Leu Glu Asp Asn	Gly Val Pro Thr Gly	Val Lys Gly Asn Val Gln Gly													
	305	310												315	
Asn Leu Phe Lys	Val Ile Thr Lys Asp	Asp Thr His Tyr Tyr Ile Gln													
	325	330												335	
Ala Ser Ser Lys	Ala Glu Arg Ala Glu	Trp Ile Glu Ala Ile Lys Lys													
	340	345												350	
Leu Thr															

<211> 63
 <212> PRT
 <213> Homo sapiens

<400> 122
 Met Trp Lys Arg Val Cys Val Cys Val Phe Leu Tyr Ile Ala Trp Val
 1 5 10 15
 Gln Leu Trp Met Cys Ala Lys Glu Cys Glu Cys Val Cys Val Cys Val
 20 25 30
 Lys Gly Ser Val Leu Glu Pro Thr Ser Val Cys Cys Glu Ser Gly Lys
 35 40 45
 Arg Val Gly Glu Gly Arg Glu Met Leu Thr Leu Val Gly Ala Gly
 50 55 60

<210> 123
 <211> 309
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (129)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (178)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (187)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (262)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (308)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 123
 Met Phe Thr Ile Lys Leu Leu Leu Phe Ile Val Pro Leu Val Ile Ser
 1 5 10 15
 Ser Arg Ile Asp Gln Asp Asn Ser Ser Phe Asp Ser Leu Ser Pro Glu
 20 25 30
 Pro Lys Ser Arg Phe Ala Met Leu Asp Asp Val Lys Ile Leu Ala Asn
 35 40 45

Gly Leu Leu Gln Leu Gly His Gly Leu Lys Asp Phe Val His Lys Thr
 50 55 60
 Lys Gly Gln Ile Asn Asp Ile Phe Gln Lys Leu Asn Ile Phe Asp Gln
 65 70 75 80
 Ser Phe Tyr Asp Leu Ser Leu Gln Thr Ser Glu Ile Lys Glu Glu Glu
 85 90 95
 Lys Glu Leu Arg Arg Thr Thr Tyr Lys Leu Gln Val Lys Asn Glu Glu
 100 105 110
 Val Lys Asn Met Ser Leu Glu Leu Asn Ser Lys Leu Glu Ser Leu Leu
 115 120 125
 Xaa Glu Lys Ile Leu Leu Gln Gln Lys Val Lys Tyr Leu Glu Glu Gln
 130 135 140
 Leu Thr Asn Leu Ile Gln Asn Gln Pro Glu Thr Pro Glu His Pro Glu
 145 150 155 160
 Val Thr Ser Leu Lys Thr Phe Val Glu Lys Gln Asp Asn Ser Ile Lys
 165 170 175
 Asp Xaa Leu Gln Thr Val Glu Asp Gln Tyr Xaa Gln Leu Asn Gln Gln
 180 185 190
 His Ser Gln Ile Lys Glu Ile Glu Asn Gln Leu Arg Arg Thr Ser Ile
 195 200 205
 Gln Glu Pro Thr Glu Ile Ser Leu Ser Ser Lys Pro Arg Ala Pro Arg
 210 215 220
 Thr Thr Pro Phe Leu Gln Leu Asn Glu Ile Arg Asn Val Lys His Asp
 225 230 235 240
 Gly Ile Pro Ala Glu Cys Thr Thr Ile Tyr Asn Arg Gly Glu His Thr
 245 250 255
 Ser Gly Met Tyr Ala Xaa Arg Pro Ser Asn Ser Gln Val Phe His Val
 260 265 270
 Tyr Cys Asp Val Ile Ser Gly Ser Pro Trp Thr Leu Ile Gln His Arg
 275 280 285
 Ile Asp Gly Ser Gln Asn Phe Asn Glu Thr Trp Glu Asn Tyr Lys Tyr
 290 295 300
 Gly Phe Gly Xaa Ala
 305

<210> 124

<211> 211

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 124

Met Ala Asn Ala Gly Leu Gln Leu Leu Gly Phe Ile Leu Ala Phe Leu
1 5 10 15

Gly Trp Ile Gly Ala Ile Val Ser Thr Ala Leu Pro Gln Trp Arg Ile
20 25 30

Tyr Ser Tyr Ala Gly Asp Asn Ile Val Thr Ala Gln Ala Met Tyr Glu
35 40 45

Gly Leu Trp Met Ser Cys Val Ser Gln Ser Thr Gly Gln Ile Gln Cys
50 55 60

Lys Val Phe Asp Ser Leu Leu Asn Leu Ser Ser Thr Leu Gln Ala Thr
65 70 75 80

Arg Ala Leu Met Val Val Gly Ile Leu Leu Gly Val Ile Ala Ile Phe
85 90 95

Val Ala Xaa Val Gly Met Lys Cys Met Lys Cys Leu Glu Asp Asp Glu
100 105 110

Val Gln Lys Met Arg Met Ala Val Ile Gly Gly Ala Ile Phe Leu Leu
115 120 125

Ala Gly Leu Ala Ile Leu Val Ala Thr Ala Trp Tyr Gly Asn Arg Ile
130 135 140

Val Gln Glu Phe Tyr Asp Pro Met Thr Pro Val Asn Ala Arg Tyr Glu
145 150 155 160

Phe Gly Gln Ala Leu Phe Thr Gly Trp Ala Ala Ala Ser Leu Cys Leu
165 170 175

Leu Gly Gly Ala Leu Leu Cys Cys Ser Cys Pro Arg Lys Thr Thr Ser
180 185 190

Tyr Pro Thr Pro Arg Pro Tyr Pro Lys Pro Ala Pro Ser Ser Gly Lys
195 200 205

Asp Tyr Val
210

<210> 125

<211> 50

<212> PRT

<213> Homo sapiens

<400> 125

Met Ala Pro Leu Trp Thr Leu Arg Pro Val Leu Val Trp Thr Thr Pro
1 5 10 15

Thr Ser Met Gly Glu Val Ser Pro Trp Leu Thr Ser Thr Val Met Ala

	20		25		30
Lys Trp Thr Ser Ser Met Ala Thr Gly Met Ala Pro Thr Ala Ser Ile	35	40	45		
Cys Arg	50				
<210> 126					
<211> 262					
<212> PRT					
<213> Homo sapiens					
<400> 126					
Met Leu Phe Ser Ala Leu Leu Leu Glu Val Ile Trp Ile Leu Ala Ala	1	5	10	15	
Asp Gly Gly Gln His Trp Thr Tyr Glu Gly Pro His Gly Gln Asp His	20	25	30		
Trp Pro Ala Ser Tyr Pro Glu Cys Gly Asn Asn Ala Gln Ser Pro Ile	35	40	45		
Asp Ile Gln Thr Asp Ser Val Thr Phe Asp Pro Asp Leu Pro Ala Leu	50	55	60		
Gln Pro His Gly Tyr Asp Gln Pro Gly Thr Glu Pro Leu Asp Leu His	65	70	75	80	
Asn Asn Gly His Thr Val Gln Leu Ser Leu Pro Ser Thr Leu Tyr Leu	85	90	95		
Gly Gly Leu Pro Arg Lys Tyr Val Ala Ala Gln Leu His Leu His Trp	100	105	110		
Gly Gln Lys Gly Ser Pro Gly Gly Ser Glu His Gln Ile Asn Ser Glu	115	120	125		
Ala Thr Phe Ala Glu Leu His Ile Val His Tyr Asp Ser Asp Ser Tyr	130	135	140		
Asp Ser Leu Ser Glu Ala Ala Glu Arg Pro Gln Gly Leu Ala Val Leu	145	150	155	160	
Gly Ile Leu Ile Glu Leu Glu Lys Leu Gln Gly Thr Leu Phe Ser Thr	165	170	175		
Glu Glu Glu Pro Ser Lys Leu Leu Val Gln Asn Tyr Arg Ala Leu Gln	180	185	190		
Pro Leu Asn Gln Arg Met Val Phe Ala Ser Phe Ile Gln Ala Gly Ser	195	200	205		
Ser Tyr Thr Thr Gly Glu Met Leu Ser Leu Gly Val Gly Ile Leu Val	210	215	220		
Gly Cys Leu Cys Leu Leu Leu Ala Val Tyr Phe Ile Ala Arg Lys Ile					

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<210> 127
<211> 270
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

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<400> 127															
Met	His	Tyr	Tyr	Arg	Tyr	Ser	Asn	Ala	Lys	Val	Ser	Cys	Trp	Tyr	Lys
1				5					10					15	
Tyr	Leu	Leu	Phe	Ser	Tyr	Asn	Ile	Ile	Phe	Xaa	Leu	Ala	Gly	Val	Val
			20					25					30		
Phe	Leu	Gly	Val	Gly	Leu	Trp	Ala	Trp	Ser	Glu	Lys	Gly	Val	Leu	Ser
		35					40					45			
Asp	Leu	Thr	Lys	Val	Thr	Arg	Met	His	Gly	Ile	Asp	Pro	Val	Val	Leu
50						55					60				
Val	Leu	Met	Val	Gly	Val	Val	Met	Phe	Thr	Leu	Gly	Phe	Ala	Gly	Cys
65					70					75					80
Val	Gly	Ala	Leu	Arg	Glu	Asn	Ile	Cys	Leu	Leu	Asn	Phe	Phe	Cys	Gly
				85					90					95	
Thr	Ile	Val	Leu	Ile	Phe	Phe	Leu	Glu	Leu	Ala	Val	Ala	Val	Leu	Ala
			100					105					110		
Phe	Leu	Phe	Gln	Asp	Trp	Val	Arg	Asp	Arg	Phe	Arg	Glu	Phe	Phe	Glu
		115					120					125			
Ser	Asn	Ile	Lys	Ser	Tyr	Arg	Asp	Asp	Ile	Asp	Leu	Gln	Asn	Leu	Ile
	130					135					140				
Asp	Ser	Leu	Gln	Lys	Ala	Asn	Gln	Cys	Cys	Gly	Ala	Tyr	Gly	Pro	Glu
145					150					155					160
Asp	Trp	Asp	Leu	Asn	Val	Tyr	Phe	Asn	Cys	Ser	Gly	Ala	Ser	Tyr	Ser
				165					170					175	
Arg	Glu	Lys	Cys	Gly	Val	Pro	Phe	Ser	Cys	Cys	Val	Pro	Asp	Pro	Ala
			180					185					190		
Gln	Lys	Val	Val	Asn	Thr	Gln	Cys	Gly	Tyr	Asp	Val	Arg	Ile	Gln	Leu
		195					200					205			

Lys Ser Lys Trp Asp Glu Ser Ile Phe Thr Lys Gly Cys Ile Gln Ala
 210 215 220

Leu Glu Ser Trp Leu Pro Arg Asn Ile Tyr Ile Val Ala Gly Val Phe
 225 230 235 240

Ile Ala Ile Ser Leu Leu Gln Ile Phe Gly Ile Phe Leu Ala Arg Thr
 245 250 255

Leu Ile Ser Asp Ile Glu Ala Val Lys Ala Gly His His Phe
 260 265 270

<210> 128

<211> 91

<212> PRT

<213> Homo sapiens

<400> 128

Met Leu Arg Cys Gly Gly Arg Gly Leu Leu Leu Gly Leu Ala Val Ala
 1 5 10 15

Ala Ala Ala Val Met Ala Ala Arg Leu Met Gly Trp Trp Gly Pro Arg
 20 25 30

Ala Gly Phe Arg Leu Phe Ile Pro Glu Glu Leu Ser Arg Tyr Arg Gly
 35 40 45

Gly Pro Gly Asp Pro Gly Leu Tyr Leu Ala Leu Leu Gly Arg Val Tyr
 50 55 60

Asp Val Ser Ser Gly Arg Ser Thr Thr Ser Leu Gly Pro Thr Ile Ala
 65 70 75 80

Ala Ser Gln Ala Glu Thr His Pro Glu Leu Ser
 85 90

<210> 129

<211> 222

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 129

Met Leu Trp Leu Leu Phe Phe Leu Val Thr Ala Ile His Ala Glu Leu
 1 5 10 15

Cys Gln Pro Gly Ala Glu Asn Ala Phe Lys Val Arg Leu Ser Ile Arg
 20 25 30

Thr Ala Leu Gly Asp Lys Ala Tyr Ala Trp Asp Thr Asn Glu Glu Tyr
 35 40 45

Leu Phe Lys Ala Met Val Ala Phe Ser Met Arg Lys Val Pro Asn Arg
 50 55 60
 Glu Ala Thr Glu Ile Ser His Val Leu Leu Cys Asn Val Thr Gln Arg
 65 70 75 80
 Val Ser Phe Trp Phe Val Val Thr Asp Pro Ser Lys Asn His Thr Leu
 85 90 95
 Pro Ala Val Glu Val Gln Ser Ala Ile Arg Met Asn Lys Asn Arg Ile
 100 105 110
 Asn Asn Ala Phe Phe Leu Asn Xaa Gln Thr Leu Glu Phe Leu Lys Ile
 115 120 125
 Pro Ser Thr Leu Ala Pro Pro Met Asp Pro Ser Val Pro Ile Trp Ile
 130 135 140
 Ile Ile Phe Gly Val Ile Phe Cys Ile Ile Ile Val Ala Ile Ala Leu
 145 150 155 160
 Leu Ile Leu Ser Gly Ile Trp Gln Arg Arg Arg Lys Asn Lys Glu Pro
 165 170 175
 Ser Glu Val Asp Asp Ala Glu Asp Lys Cys Glu Asn Met Ile Thr Ile
 180 185 190
 Glu Asn Gly Ile Pro Ser Asp Pro Leu Asp Met Lys Gly Gly His Ile
 195 200 205
 Asn Asp Ala Phe Met Thr Glu Asp Glu Arg Leu Thr Pro Leu
 210 215 220

<210> 130

<211> 760

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (267)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (315)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (438)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 130

Met Ile Pro Asn Gln His Asn Ala Gly Ala Gly Ser His Gln Pro Ala
 1 5 10 15

Val	Phe	Arg	Met	Ala	Val	Leu	Asp	Thr	Asp	Leu	Asp	His	Ile	Leu	Pro	20	25	30
Ser	Ser	Val	Leu	Pro	Pro	Phe	Trp	Ala	Lys	Leu	Val	Val	Gly	Ser	Val	35	40	45
Ala	Ile	Val	Cys	Phe	Ala	Arg	Ser	Tyr	Asp	Gly	Asp	Phe	Val	Phe	Asp	50	55	60
Asp	Ser	Glu	Ala	Ile	Val	Asn	Asn	Lys	Asp	Leu	Gln	Ala	Glu	Thr	Pro	65	70	75
Leu	Gly	Asp	Leu	Trp	His	His	Asp	Phe	Trp	Gly	Ser	Arg	Leu	Ser	Ser	85	90	95
Asn	Thr	Ser	His	Lys	Ser	Tyr	Arg	Pro	Leu	Thr	Val	Leu	Thr	Phe	Arg	100	105	110
Ile	Asn	Tyr	Tyr	Leu	Ser	Gly	Gly	Phe	His	Pro	Val	Gly	Phe	His	Val	115	120	125
Val	Asn	Ile	Leu	Leu	His	Ser	Gly	Ile	Ser	Val	Leu	Met	Val	Asp	Val	130	135	140
Phe	Ser	Val	Leu	Phe	Gly	Gly	Leu	Gln	Tyr	Thr	Ser	Lys	Gly	Arg	Arg	145	150	155
Leu	His	Leu	Ala	Pro	Arg	Ala	Ser	Leu	Leu	Ala	Ala	Leu	Leu	Phe	Ala	165	170	175
Val	His	Pro	Val	His	Thr	Glu	Cys	Val	Ala	Gly	Val	Val	Gly	Arg	Ala	180	185	190
Asp	Leu	Leu	Cys	Ala	Leu	Phe	Phe	Leu	Leu	Ser	Phe	Leu	Gly	Tyr	Cys	195	200	205
Lys	Ala	Phe	Arg	Glu	Ser	Asn	Lys	Glu	Gly	Ala	His	Ser	Ser	Thr	Phe	210	215	220
Trp	Val	Leu	Leu	Ser	Ile	Phe	Leu	Gly	Ala	Val	Ala	Met	Leu	Cys	Lys	225	230	235
Glu	Gln	Gly	Ile	Thr	Val	Leu	Gly	Leu	Asn	Ala	Val	Phe	Asp	Ile	Leu	245	250	255
Val	Ile	Gly	Lys	Phe	Asn	Val	Leu	Glu	Ile	Xaa	Gln	Lys	Val	Leu	His	260	265	270
Lys	Asp	Lys	Ser	Leu	Glu	Asn	Leu	Gly	Met	Leu	Arg	Asn	Gly	Gly	Leu	275	280	285
Leu	Phe	Arg	Met	Thr	Leu	Leu	Thr	Ser	Gly	Gly	Ala	Gly	Met	Leu	Tyr	290	295	300
Val	Arg	Trp	Arg	Ile	Met	Gly	Thr	Gly	Pro	Xaa	Ala	Phe	Thr	Glu	Val	305	310	315

Asp Asn Pro Ala Ser Phe Ala Asp Ser Met Leu Val Arg Ala Val Asn
 325 330 335
 Tyr Asn Tyr Tyr Tyr Ser Leu Asn Ala Trp Leu Leu Leu Cys Pro Trp
 340 345 350
 Trp Leu Cys Phe Asp Trp Ser Met Gly Cys Ile Pro Leu Ile Lys Ser
 355 360 365
 Ile Ser Asp Trp Arg Val Ile Ala Leu Ala Ala Leu Trp Phe Cys Leu
 370 375 380
 Ile Gly Leu Ile Cys Gln Ala Leu Cys Ser Glu Asp Gly His Lys Arg
 385 390 395 400
 Arg Ile Leu Thr Leu Gly Leu Gly Phe Leu Val Ile Pro Phe Leu Pro
 405 410 415
 Ala Ser Asn Leu Phe Phe Arg Val Gly Phe Val Val Ala Glu Arg Val
 420 425 430
 Leu Tyr Leu Pro Ser Xaa Gly Tyr Cys Val Leu Leu Thr Phe Gly Phe
 435 440 445
 Gly Ala Leu Ser Lys His Thr Lys Lys Lys Lys Leu Ile Ala Ala Val
 450 455 460
 Val Leu Gly Ile Leu Phe Ile Asn Thr Leu Arg Cys Val Leu Arg Ser
 465 470 475 480
 Gly Glu Trp Arg Ser Glu Glu Gln Leu Phe Arg Ser Ala Leu Ser Val
 485 490 495
 Cys Pro Leu Asn Ala Lys Val His Tyr Asn Ile Gly Lys Asn Leu Ala
 500 505 510
 Asp Lys Gly Asn Gln Thr Ala Ala Ile Arg Tyr Tyr Arg Glu Ala Val
 515 520 525
 Arg Leu Asn Pro Lys Tyr Val His Ala Met Asn Asn Leu Gly Asn Ile
 530 535 540
 Leu Lys Glu Arg Asn Glu Leu Gln Glu Ala Glu Glu Leu Leu Ser Leu
 545 550 555 560
 Ala Val Gln Ile Gln Pro Asp Phe Ala Ala Ala Trp Met Asn Leu Gly
 565 570 575
 Ile Val Gln Asn Ser Leu Lys Arg Phe Glu Ala Ala Glu Gln Ser Tyr
 580 585 590
 Arg Thr Ala Ile Lys His Arg Arg Lys Tyr Pro Asp Cys Tyr Tyr Asn
 595 600 605
 Leu Gly Arg Leu Tyr Ala Asp Leu Asn Arg His Val Asp Ala Leu Asn
 610 615 620
 Ala Trp Arg Asn Ala Thr Val Leu Lys Pro Glu His Ser Leu Ala Trp

625 630 635 640
 Asn Asn Met Ile Ile Leu Leu Asp Asn Thr Gly Asn Leu Ala Gln Ala
 645 650 655
 Glu Ala Val Gly Arg Glu Ala Leu Glu Leu Ile Pro Asn Asp His Ser
 660 665 670
 Leu Met Phe Ser Leu Ala Asn Val Leu Gly Lys Ser Gln Lys Tyr Lys
 675 680 685
 Glu Ser Glu Ala Leu Phe Leu Lys Ala Ile Lys Ala Asn Pro Asn Ala
 690 695 700
 Ala Ser Tyr His Gly Asn Leu Ala Val Leu Tyr His Arg Trp Gly His
 705 710 715 720
 Leu Asp Leu Ala Lys Lys His Tyr Glu Ile Ser Leu Gln Leu Asp Pro
 725 730 735
 Thr Ala Ser Gly Thr Lys Glu Asn Tyr Gly Leu Leu Arg Arg Lys Leu
 740 745 750
 Glu Leu Met Gln Lys Lys Ala Val
 755 760

 <210> 131
 <211> 201
 <212> PRT
 <213> Homo sapiens

 <400> 131
 Met Phe Phe Leu Gly Ala Val Leu Cys Leu Ser Phe Ser Trp Leu Phe
 1 5 10 15
 His Thr Val Tyr Cys His Ser Glu Lys Val Ser Arg Thr Phe Ser Lys
 20 25 30
 Leu Asp Tyr Ser Gly Ile Ala Leu Leu Ile Met Gly Ser Phe Val Pro
 35 40 45
 Trp Leu Tyr Tyr Ser Phe Tyr Cys Ser Pro Gln Pro Arg Leu Ile Tyr
 50 55 60
 Leu Ser Ile Val Cys Val Leu Gly Ile Ser Ala Ile Ile Val Ala Gln
 65 70 75 80
 Trp Asp Arg Phe Ala Thr Pro Lys His Arg Gln Thr Arg Ala Gly Val
 85 90 95
 Phe Leu Gly Leu Gly Leu Ser Gly Val Val Pro Thr Met His Phe Thr
 100 105 110
 Ile Ala Glu Gly Phe Val Lys Ala Thr Thr Val Gly Gln Met Gly Trp
 115 120 125
 Phe Phe Leu Met Ala Val Met Tyr Ile Thr Gly Ala Gly Leu Tyr Ala

130	135	140
Ala Arg Ile Pro Glu Arg Phe Phe Pro Gly Lys Phe Asp Ile Trp Phe		
145	150	155 160
Gln Ser His Gln Ile Phe His Val Leu Val Val Ala Ala Ala Phe Val		
	165	170 175
His Phe Tyr Gly Val Ser Asn Leu Gln Glu Phe Arg Tyr Gly Leu Glu		
	180	185 190
Gly Gly Cys Thr Asp Asp Thr Leu Leu		
	195	200

<210> 132
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 132
Met Gly Arg Gln Ala Leu Leu Leu Leu Ala Leu Cys Ala Thr Gly Ala
1 5 10 15
Gln Gly Leu Tyr Phe His Ile Gly Glu Thr Glu Lys Arg Cys Phe Ile
20 25 30
Glu Glu Ile Pro Asp Glu Thr Met Val Ile Gly Gln Ala Gly
35 40 45

<210> 133
 <211> 305
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 133
Met Ala Leu Cys Ala Leu Thr Arg Ala Leu Xaa Ser Leu Asn Leu Ala
1 5 10 15
Pro Pro Thr Val Ala Ala Pro Ala Pro Ser Leu Phe Pro Ala Ala Gln
20 25 30
Met Met Asn Asn Gly Leu Leu Gln Gln Pro Ser Ala Leu Met Leu Leu
35 40 45
Pro Cys Arg Pro Val Leu Thr Ser Val Ala Leu Asn Ala Asn Phe Val
50 55 60
Ser Trp Lys Ser Arg Thr Lys Tyr Thr Ile Thr Pro Val Lys Met Arg
65 70 75 80
Lys Ser Gly Gly Arg Asp His Thr Gly Arg Ile Arg Val His Gly Ile

85										90					95				
Gly	Gly	Gly	His	Lys	Gln	Arg	Tyr	Arg	Met	Ile	Asp	Phe	Leu	Arg	Phe				
			100					105					110						
Arg	Pro	Glu	Glu	Thr	Lys	Ser	Gly	Pro	Phe	Glu	Glu	Lys	Val	Ile	Gln				
		115					120					125							
Val	Arg	Tyr	Asp	Pro	Cys	Arg	Ser	Ala	Asp	Ile	Ala	Leu	Val	Ala	Gly				
	130					135					140								
Gly	Ser	Arg	Lys	Arg	Trp	Ile	Ile	Ala	Thr	Glu	Asn	Met	Gln	Ala	Gly				
145					150					155					160				
Asp	Thr	Ile	Leu	Asn	Ser	Asn	His	Ile	Gly	Arg	Met	Ala	Val	Ala	Ala				
			165						170					175					
Arg	Glu	Gly	Asp	Ala	His	Pro	Leu	Gly	Ala	Leu	Pro	Val	Gly	Thr	Leu				
		180						185					190						
Ile	Asn	Asn	Val	Glu	Ser	Glu	Pro	Gly	Arg	Gly	Ala	Gln	Tyr	Ile	Arg				
	195						200					205							
Ala	Ala	Gly	Thr	Cys	Gly	Val	Leu	Leu	Arg	Lys	Val	Asn	Gly	Thr	Ala				
	210					215					220								
Ile	Ile	Gln	Leu	Pro	Ser	Lys	Arg	Gln	Met	Gln	Val	Leu	Glu	Thr	Cys				
225					230					235					240				
Val	Ala	Thr	Val	Gly	Arg	Val	Ser	Asn	Val	Asp	His	Asn	Lys	Arg	Val				
			245						250					255					
Ile	Gly	Lys	Ala	Gly	Arg	Asn	Arg	Trp	Leu	Gly	Lys	Arg	Pro	Asn	Ser				
		260						265					270						
Gly	Arg	Trp	His	Arg	Lys	Gly	Gly	Trp	Ala	Gly	Arg	Lys	Ile	Arg	Pro				
	275					280						285							
Leu	Pro	Pro	Met	Lys	Ser	Tyr	Val	Lys	Leu	Pro	Ser	Ala	Ser	Ala	Gln				
	290					295					300								
Ser																			
305																			

<210> 134

<211> 81

<212> PRT

<213> Homo sapiens

<400> 134

Met	Asn	Gln	Leu	Met	Phe	Gln	Asp	Leu	Leu	Cys	Cys	Leu	Cys	Leu	Phe
1				5					10					15	

Val	Ile	Gly	Leu	Ile	Ser	Leu	Leu	Arg	Lys	Thr	Tyr	Ser	Cys	Val	Asn
		20						25					30		

Leu	Cys	Lys	Val	Met	Leu	Pro	Val	Lys	Lys	Tyr	Ser	Thr	Val	Ser	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35	40	45
Val Leu Cys Arg Asn Met Lys Leu Asn Gly Lys Asn Val Leu Met Phe		
50	55	60
Val Val Met Leu Leu Gly Gln Trp Met Gly Lys Leu Pro Lys Leu Ser		
65	70	75
		80

Pro

<210> 135

<211> 242

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 135

Met Glu Gln Ala Arg Lys Ser Ser Thr Val Ser Leu Leu Ile Thr Val
1 5 10 15

Leu Phe Ala Val Ala Phe Ser Val Leu Leu Leu Ser Cys Lys Asp His
20 25 30

Val Gly Tyr Ile Phe Thr Thr Asp Arg Asp Ile Ile Asn Leu Val Ala
35 40 45

Gln Val Val Pro Ile Tyr Ala Val Ser His Leu Phe Glu Ala Leu Ala
50 55 60

Cys Thr Ser Gly Gly Val Leu Arg Gly Ser Gly Asn Gln Lys Val Gly
65 70 75 80

Ala Ile Val Asn Thr Ile Gly Xaa Tyr Val Val Gly Leu Pro Ile Gly
85 90 95

Ile Ala Leu Met Phe Ala Thr Thr Leu Gly Val Met Gly Leu Trp Ser
100 105 110

Gly Ile Ile Ile Cys Thr Val Phe Gln Ala Val Cys Phe Leu Gly Phe
115 120 125

Ile Ile Gln Leu Asn Trp Lys Lys Ala Cys Xaa Gln Ala Gln Val His
130 135 140

Ala Asn Leu Lys Val Asn Asn Val Pro Arg Ser Gly Asn Ser Ala Leu
145 150 155 160

Pro Gln Asp Pro Leu His Pro Gly Cys Pro Glu Asn Leu Glu Gly Ile
 165 170 175

Leu Thr Asn Asp Val Gly Lys Thr Gly Glu Pro Gln Ser Asp Gln Gln
 180 185 190

Met Arg Gln Glu Glu Pro Leu Pro Glu His Pro Gln Asp Gly Ala Lys
 195 200 205

Leu Ser Arg Lys Gln Leu Val Leu Arg Arg Gly Leu Leu Leu Leu Gly
 210 215 220

Val Phe Leu Ile Leu Leu Val Gly Ile Leu Val Arg Phe Tyr Val Arg
 225 230 235 240

Ile Gln

<210> 136
 <211> 285
 <212> PRT
 <213> Homo sapiens

<400> 136
 Met Val Val Ala Gly Val Val Val Leu Ile Leu Ala Leu Val Leu Ala
 1 5 10 15

Trp Leu Ser Thr Tyr Val Ala Asp Ser Gly Ser Asn Gln Leu Leu Gly
 20 25 30

Ala Ile Val Ser Ala Gly Asp Thr Ser Val Leu His Leu Gly His Val
 35 40 45

Asp His Leu Val Ala Gly Gln Gly Asn Pro Glu Pro Thr Glu Leu Pro
 50 55 60

His Pro Ser Glu Gly Asn Asp Glu Lys Ala Glu Glu Ala Gly Glu Gly
 65 70 75 80

Arg Gly Asp Ser Thr Gly Glu Ala Gly Ala Gly Gly Gly Val Glu Pro
 85 90 95

Ser Leu Glu His Leu Leu Asp Ile Gln Gly Leu Pro Lys Arg Gln Ala
 100 105 110

Gly Ala Gly Ser Ser Ser Pro Glu Ala Pro Leu Arg Ser Glu Asp Ser
 115 120 125

Thr Cys Leu Pro Pro Ser Pro Gly Leu Ile Thr Val Arg Leu Lys Phe
 130 135 140

Leu Asn Asp Thr Glu Glu Leu Ala Val Ala Arg Pro Glu Asp Thr Val
 145 150 155 160

Gly Ala Leu Lys Ser Lys Tyr Phe Pro Gly Gln Glu Ser Gln Met Lys
 165 170 175

Leu Ile Tyr Gln Gly Arg Leu Leu Gln Asp Pro Ala Arg Thr Leu Arg
 180 185 190

Ser Leu Asn Ile Thr Asp Asn Cys Val Ile His Cys His Arg Ser Pro
 195 200 205

Pro Gly Ser Ala Val Pro Gly Pro Ser Ala Ser Leu Ala Pro Ser Ala
 210 215 220

Thr Glu Pro Pro Ser Leu Gly Val Asn Val Gly Ser Leu Met Val Pro
 225 230 235 240

Val Phe Val Val Leu Leu Gly Val Val Trp Tyr Phe Arg Ile Asn Tyr
 245 250 255

Arg Gln Phe Phe Thr Ala Pro Ala Thr Val Ser Leu Val Gly Val Thr
 260 265 270

Val Phe Phe Ser Phe Leu Val Phe Gly Met Tyr Gly Arg
 275 280 285

<210> 137

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 137

Met Asp Ala Met Ile Leu Leu Asn Val Leu Ala Leu Thr Arg Leu Ala
 1 5 10 15

Lys Ala Ala Ala Thr Asn Phe Val Ala Gln Gly Arg Gly Thr Ile Ile
 20 25 30

Asn Ile Gly Ser Ile Val Ala Leu Ala Pro Lys Val Leu Asn Gly Val
 35 40 45

Tyr Gly Gly Thr Lys Ala Phe Val Gln Ala Phe Ser Glu Ser Leu Gln

50	55	60
His Glu Leu Ser Asp Lys Gly Val Val Val Gln Val Val Leu Pro Gly		
65	70	75 80
Ala Thr Ala Thr Glu Phe Trp Asp Ile Ala Gly Leu Pro Val Lys Gln		
	85	90 95
Pro Ala Gly Ser His Gly Asp Asp His Arg Lys Pro Gly Gly Arg Arg		
	100	105 110
Pro Xaa Arg Pro Cys Pro Xaa Xaa Xaa Val Thr Ile Pro Ser Leu Pro		
	115	120 125
Asp Ser Ala Asp Trp Asp Thr Thr Asn Ala Arg Gly Trp Pro Trp Val		
	130	135 140
Arg Thr Cys Arg Thr Val Asn Pro Pro Leu Val Met Gly		
145	150	155

<210> 138

<211> 308

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (185)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 138

Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser Pro
1 5 10 15

Val Val Leu Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr His
20 25 30

Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Asp Ile Leu Cys
35 40 45

Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro Thr
50 55 60

His Leu Gln Thr Glu Leu Val Leu Arg Cys Gln Lys Glu Thr Asp Cys
65 70 75 80

Asp Leu Cys Leu Arg Val Xaa Val His Leu Ala Val His Gly His Trp
85 90 95

Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Leu Gly
100 105 110

Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu Ser
115 120 125

Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln Val
130 135 140

Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val Tyr
145 150 155 160

Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser Tyr
165 170 175

Thr Gln Pro Arg Tyr Glu Lys Glu Xaa Asn His Thr Gln Gln Leu Pro
180 185 190

Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp Ala
195 200 205

Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Leu Val
210 215 220

Leu Asn Val Ser Glu Glu Gln His Phe Gly Leu Ser Leu Tyr Trp Asn
225 230 235 240

Gln Val Gln Gly Pro Pro Lys Pro Arg Trp His Lys Asn Leu Thr Gly
245 250 255

Pro Gln Ile Ile Thr Leu Asn His Thr Asp Leu Val Pro Cys Leu Cys
260 265 270

Ile Gln Val Trp Pro Leu Glu Pro Asp Ser Val Arg Arg Thr Ser Ala
275 280 285

Pro Ser Gly Arg Thr Pro Ala His Thr Arg Thr Ser Gly Lys Pro Pro
290 295 300

Asp Cys Asp Cys
305

<210> 139

<211> 508

<212> PRT

<213> Homo sapiens

<400> 139

Met Asp Pro Lys Leu Gly Arg Met Ala Ala Ser Leu Leu Ala Val Leu
1 5 10 15

Leu Leu Leu Leu Leu Glu Arg Gly Met Phe Ser Ser Pro Ser Pro Pro
20 25 30

Pro Ala Leu Leu Glu Lys Val Phe Gln Tyr Ile Asp Leu His Gln Asp
35 40 45

Glu Phe Val Gln Thr Leu Lys Glu Trp Val Ala Ile Glu Ser Asp Ser
50 55 60

Val	Gln	Pro	Val	Pro	Arg	Phe	Arg	Gln	Glu	Leu	Phe	Arg	Met	Met	Ala	65	70	75	80
Val	Ala	Ala	Asp	Thr	Leu	Gln	Arg	Leu	Gly	Ala	Arg	Val	Ala	Ser	Val	85	90	95	
Asp	Met	Gly	Pro	Gln	Gln	Leu	Pro	Asp	Gly	Gln	Ser	Leu	Pro	Ile	Pro	100	105	110	
Pro	Val	Ile	Leu	Ala	Glu	Leu	Gly	Ser	Asp	Pro	Thr	Lys	Gly	Thr	Val	115	120	125	
Cys	Phe	Tyr	Gly	His	Leu	Asp	Val	Gln	Pro	Ala	Asp	Arg	Gly	Asp	Gly	130	135	140	
Trp	Leu	Thr	Asp	Pro	Tyr	Val	Leu	Thr	Glu	Val	Asp	Gly	Lys	Leu	Tyr	145	150	155	160
Gly	Arg	Gly	Ala	Thr	Asp	Asn	Lys	Gly	Pro	Val	Leu	Ala	Trp	Ile	Asn	165	170	175	
Ala	Val	Ser	Ala	Phe	Arg	Ala	Leu	Glu	Gln	Asp	Leu	Pro	Val	Asn	Ile	180	185	190	
Lys	Phe	Ile	Ile	Glu	Gly	Met	Glu	Glu	Ala	Gly	Ser	Val	Ala	Leu	Glu	195	200	205	
Glu	Leu	Val	Glu	Lys	Glu	Lys	Asp	Arg	Phe	Phe	Ser	Gly	Val	Asp	Tyr	210	215	220	
Ile	Val	Ile	Ser	Asp	Asn	Leu	Trp	Ile	Ser	Gln	Arg	Lys	Pro	Ala	Ile	225	230	235	240
Thr	Tyr	Gly	Thr	Arg	Gly	Asn	Ser	Tyr	Phe	Met	Val	Glu	Val	Lys	Cys	245	250	255	
Arg	Asp	Gln	Asp	Phe	His	Ser	Gly	Thr	Phe	Gly	Gly	Ile	Leu	His	Glu	260	265	270	
Pro	Met	Ala	Asp	Leu	Val	Ala	Leu	Leu	Gly	Ser	Leu	Val	Asp	Ser	Ser	275	280	285	
Gly	His	Ile	Leu	Val	Pro	Gly	Ile	Tyr	Asp	Glu	Val	Val	Pro	Leu	Thr	290	295	300	
Glu	Glu	Glu	Ile	Asn	Thr	Tyr	Lys	Ala	Ile	His	Leu	Asp	Leu	Glu	Glu	305	310	315	320
Tyr	Arg	Asn	Ser	Ser	Arg	Val	Glu	Lys	Phe	Leu	Phe	Asp	Thr	Lys	Glu	325	330	335	
Glu	Ile	Leu	Met	His	Leu	Trp	Arg	Tyr	Pro	Ser	Leu	Ser	Ile	His	Gly	340	345	350	
Ile	Glu	Gly	Ala	Phe	Asp	Glu	Pro	Gly	Thr	Lys	Thr	Val	Ile	Pro	Gly	355	360	365	
Arg	Val	Ile	Gly	Lys	Phe	Ser	Ile	Arg	Leu	Val	Pro	His	Met	Asn	Val				

370		375		380
Ser Ala Val Glu Lys Gln Val Thr Arg His Leu Glu Asp Val Phe Ser				
385		390		395 400
Lys Arg Asn Ser Ser Asn Lys Met Val Val Ser Met Thr Leu Gly Leu				
	405		410	415
His Pro Trp Ile Ala Asn Ile Asp Asp Thr Gln Tyr Leu Ala Ala Lys				
	420		425	430
Arg Ala Ile Arg Thr Val Phe Gly Thr Glu Pro Asp Met Ile Arg Asp				
	435		440	445
Gly Ser Thr Ile Pro Ile Ala Lys Met Phe Gln Glu Ile Val His Lys				
	450		455	460
Ser Val Val Leu Ile Pro Leu Gly Ala Val Asp Asp Gly Glu His Ser				
465		470		475 480
Gln Asn Glu Lys Ile Asn Arg Trp Asn Tyr Ile Glu Gly Thr Lys Leu				
	485		490	495
Phe Ala Ala Phe Phe Leu Glu Met Ala Gln Leu His				
	500		505	

<210> 140
 <211> 506
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (423)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (425)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 140
 Met Gly Met Arg Arg His Ser Leu Met Leu Leu Pro Trp Trp Leu Gly
 1 5 10 15
 Ala Ala Gly Arg Lys Glu Cys His Arg Glu Gln Leu Val Ala Ala Val
 20 25 30

Glu Val Thr Glu Gln Glu Thr Lys Val Pro Lys Lys Thr Val Ile Ile
 35 40 45
 Glu Glu Thr Ile Thr Thr Val Val Lys Ser Pro Arg Gly Gln Arg Arg
 50 55 60
 Xaa Pro Ser Lys Ser Pro Ser Arg Ser Pro Ser Arg Cys Ser Ala Ser
 65 70 75 80
 Pro Leu Arg Pro Gly Leu Leu Ala Pro Asp Leu Leu Tyr Leu Pro Gly
 85 90 95
 Ala Gly Gln Pro Arg Arg Pro Glu Ala Glu Pro Gly Gln Lys Pro Xaa
 100 105 110
 Val Pro Thr Leu Tyr Val Thr Glu Ala Glu Ala His Ser Pro Ala Leu
 115 120 125
 Pro Gly Leu Ser Gly Pro Gln Pro Lys Trp Val Glu Val Glu Glu Thr
 130 135 140
 Ile Glu Val Arg Val Lys Lys Met Gly Pro Gln Gly Val Ser Pro Thr
 145 150 155 160
 Thr Glu Val Pro Arg Ser Ser Ser Gly His Leu Phe Thr Leu Pro Gly
 165 170 175
 Ala Thr Pro Gly Gly Asp Pro Asn Ser Asn Asn Ser Asn Asn Lys Leu
 180 185 190
 Leu Ala Gln Glu Ala Trp Ala Gln Gly Thr Ala Met Val Gly Val Arg
 195 200 205
 Glu Pro Leu Val Phe Arg Val Asp Ala Arg Gly Ser Val Asp Trp Ala
 210 215 220
 Ala Ser Gly Met Gly Ser Leu Glu Glu Glu Gly Thr Met Glu Glu Ala
 225 230 235 240
 Gly Glu Glu Glu Gly Glu Asp Gly Asp Ala Phe Val Thr Glu Glu Ser
 245 250 255
 Gln Asp Thr His Ser Leu Gly Asp Arg Asp Pro Lys Ile Leu Thr His
 260 265 270
 Asn Gly Arg Met Leu Thr Leu Ala Asp Leu Glu Asp Tyr Val Pro Gly
 275 280 285
 Glu Gly Glu Thr Phe His Cys Gly Gly Pro Gly Pro Gly Ala Pro Asp
 290 295 300
 Asp Pro Pro Cys Glu Val Ser Val Ile Gln Arg Glu Ile Gly Glu Pro
 305 310 315 320
 Thr Val Gly Ser Leu Cys Cys Ser Ala Trp Gly Met His Trp Val Pro
 325 330 335

Glu Ala Leu Ser Ala Ser Leu Gly Leu Ser Pro Val Gly Arg His His
 340 345 350
 Arg Asp Pro Arg Ser Val Ala Leu Arg Ala Pro Pro Ser Ser Cys Gly
 355 360 365
 Arg Pro Arg Leu Gly Leu Trp Ala Val Leu Pro Gly Arg Ser Leu Ser
 370 375 380
 Ala Pro Ala Ser Gly Val Leu Arg Thr Val Ala Arg Ala Ala Ser Pro
 385 390 395 400
 Gln Ser Phe Pro Pro Arg Pro Ser Thr Ser Gly Gln Trp Gly Arg Arg
 405 410 415
 Ser Pro Phe Thr Ser Val Xaa Gly Xaa Gly Pro Ser Tyr Leu Thr Gln
 420 425 430
 Leu Gln Pro Gly Gly Leu Gly Gly Ala Cys Asn Val Gly Met Thr Gly
 435 440 445
 Ser Lys Thr Ser Ala Leu Gly Cys Phe Leu Ser Ala Trp Gln Glu Pro
 450 455 460
 Gln Asp Cys Gly Arg Arg Met Trp Pro Trp Ala Phe Val Leu Phe Pro
 465 470 475 480
 His Gly Pro Gly Pro Ser Leu Leu Ala Pro Ala Thr Ala Ala Arg Pro
 485 490 495
 Asp Met Ala Leu Pro Leu Leu Gln Ser Trp
 500 505

<210> 141
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 141
 Met Arg Leu Leu Leu Leu Leu Leu Val Ala Ala Ser Ala Met Val Arg
 1 5 10 15
 Ser Glu Ala Ser Ala Asn Leu Gly Gly Val Pro Ser Lys Arg Leu Lys
 20 25 30
 Met Gln Tyr Ala Thr Gly Pro Leu Leu Lys Phe Gln Ile Cys Val Ser
 35 40 45

<210> 142
 <211> 130
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 142
 Met Leu Met Pro Val His Phe Leu Leu Leu Leu Leu Leu Leu Gly
 1 5 10 15
 Gly Pro Arg Thr Gly Leu Pro His Lys Phe Tyr Lys Ala Lys Pro Ile
 20 25 30
 Phe Ser Cys Leu Asn Thr Ala Leu Ser Glu Ala Glu Lys Gly Gln Trp
 35 40 45
 Glu Asp Ala Ser Leu Leu Ser Lys Arg Ser Phe His Tyr Leu Arg Xaa
 50 55 60
 Xaa Thr Pro Leu Arg Glu Arg Arg Arg Arg Ala Lys Arg Lys Arg Leu
 65 70 75 80
 Ser Pro Ser Leu Gly Pro Gly Val Glu Pro Glu Ala Pro Gly Thr Asp
 85 90 95
 Thr Cys Pro Lys His Ser Pro Gly Glu Ser His Ala Arg Thr Arg Pro
 100 105 110
 Arg Val Pro Thr Ala Pro Ser Ser Pro Cys Pro Ser Thr Ser Pro Pro
 115 120 125
 Thr Ser
 130

<210> 143
 <211> 43
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 143
 Met Ala Phe Leu Gln Ser Ala Ser Tyr Val Met Val Ile Leu Cys Ala
 1 5 10 15

Cys Val Ile Ile Ile Gly Ile Leu Xaa Tyr Ala Phe Xaa Phe Glu Thr
 20 25 30

Leu Ser Pro Lys Lys Arg Arg Asp Ile Glu Ile
 35 40

<210> 144

<211> 91

<212> PRT

<213> Homo sapiens

<400> 144

Met Gln Leu Ile Glu Ser Arg Phe His Phe Arg Cys Val Trp Ile Leu
 1 5 10 15

His Leu Leu Ala Leu Phe Ser Thr Trp Pro Pro Lys Asp Pro Glu Gly
 20 25 30

Ser Pro Pro Ser Ala Thr Ser Ser Pro Leu Thr Pro His Leu Ser Leu
 35 40 45

Thr Leu Pro Phe Lys Gln Ala Pro Val Ser Asn Val Ser Ser Ala Ile
 50 55 60

His Val Met Leu Asp Lys Ser Val Ser Leu Ser Glu Ile Gln Phe Ser
 65 70 75 80

His Met Pro Asn Gly Lys Arg Ala Ser Thr Leu
 85 90

<210> 145

<211> 266

<212> PRT

<213> Homo sapiens

<400> 145

Met Glu Leu Leu Thr Ala Leu Leu Arg Leu Phe Leu Ser Arg Pro Ala
 1 5 10 15

Glu Cys Gln Asp Met Leu Gly Arg Leu Leu Tyr Tyr Cys Ile Glu Glu
 20 25 30

Glu Lys Asp Met Ala Val Arg Asp Arg Gly Leu Phe Tyr Tyr Arg Leu
 35 40 45

Leu Leu Val Gly Ile Asp Glu Val Lys Arg Ile Leu Cys Ser Pro Lys
 50 55 60

Ser Asp Pro Thr Leu Gly Leu Leu Glu Asp Pro Ala Glu Arg Pro Val
 65 70 75 80

Asn Ser Trp Ala Ser Asp Phe Asn Thr Leu Val Pro Val Tyr Gly Lys
 85 90 95

Ala His Trp Ala Thr Ile Ser Lys Cys Gln Gly Ala Glu Arg Cys Asp
 100 105 110

Pro	Glu	Leu	Pro	Lys	Thr	Ser	Ser	Phe	Ala	Ala	Ser	Gly	Pro	Leu	Ile
		115					120					125			
Pro	Glu	Glu	Asn	Lys	Glu	Arg	Val	Gln	Glu	Leu	Pro	Asp	Ser	Gly	Ala
		130				135					140				
Leu	Met	Leu	Val	Pro	Asn	Arg	Gln	Leu	Thr	Ala	Asp	Tyr	Phe	Glu	Lys
145					150					155					160
Thr	Trp	Leu	Ser	Leu	Lys	Val	Ala	His	Gln	Gln	Val	Leu	Pro	Trp	Arg
				165					170					175	
Gly	Glu	Phe	His	Pro	Asp	Thr	Leu	Gln	Met	Ala	Leu	Gln	Val	Val	Asn
			180					185					190		
Ile	Gln	Thr	Ile	Ala	Met	Ser	Arg	Ala	Gly	Ser	Arg	Pro	Trp	Lys	Ala
		195					200					205			
Tyr	Leu	Ser	Ala	Gln	Asp	Asp	Thr	Gly	Cys	Leu	Phe	Leu	Thr	Glu	Leu
		210				215					220				
Leu	Leu	Glu	Pro	Gly	Asn	Ser	Glu	Met	Gln	Ile	Ser	Val	Lys	Gln	Asn
225					230					235					240
Glu	Ala	Arg	Thr	Glu	Thr	Leu	Asn	Ser	Phe	Ile	Ser	Val	Leu	Glu	Thr
				245					250					255	
Val	Ile	Gly	Thr	Ile	Glu	Glu	Ile	Lys	Ser						
			260					265							

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<210> 146
<211> 434
<212> PRT
<213> Homo sapiens
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<400> 146																
Met	Ala	Pro	Glu	Gly	Leu	Val	Pro	Ala	Val	Leu	Trp	Gly	Leu	Ser	Leu	
1				5					10					15		
Phe	Leu	Asn	Leu	Pro	Gly	Pro	Ile	Trp	Leu	Gln	Pro	Ser	Pro	Pro	Pro	
			20					25					30			
Gln	Ser	Ser	Pro	Pro	Pro	Gln	Pro	His	Pro	Cys	His	Thr	Cys	Arg	Gly	
		35					40					45				
Leu	Val	Asp	Ser	Phe	Asn	Lys	Gly	Leu	Glu	Arg	Thr	Ile	Arg	Asp	Asn	
	50					55					60					
Phe	Gly	Gly	Gly	Asn	Thr	Ala	Trp	Glu	Glu	Glu	Asn	Leu	Ser	Lys	Tyr	
65					70					75					80	
Lys	Asp	Ser	Glu	Thr	Arg	Leu	Val	Glu	Val	Leu	Glu	Gly	Val	Cys	Ser	
				85					90					95		
Lys	Ser	Asp	Phe	Glu	Cys	His	Arg	Leu	Leu	Glu	Leu	Ser	Glu	Glu	Leu	
			100					105					110			

Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro Asp Leu Phe
 115 120 125
 Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro Ala Gly Thr
 130 135 140
 Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu Arg Pro Cys
 145 150 155 160
 Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr Arg Gly Gly Ser Gly
 165 170 175
 His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys Gly Gln Cys
 180 185 190
 Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His Leu Val Cys
 195 200 205
 Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro Glu Glu Ser
 210 215 220
 Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His Leu Lys Cys
 225 230 235 240
 Val Asp Ile Asp Glu Cys Gly Thr Glu Gly Ala Asn Cys Gly Ala Asp
 245 250 255
 Gln Phe Cys Val Asn Thr Glu Gly Ser Tyr Glu Cys Arg Asp Cys Ala
 260 265 270
 Lys Ala Cys Leu Gly Cys Met Gly Ala Gly Pro Gly Arg Cys Lys Lys
 275 280 285
 Cys Ser Pro Gly Tyr Gln Gln Val Gly Ser Lys Cys Leu Asp Val Asp
 290 295 300
 Glu Cys Glu Thr Glu Val Cys Pro Gly Glu Asn Lys Gln Cys Glu Asn
 305 310 315 320
 Thr Glu Gly Gly Tyr Arg Cys Ile Cys Ala Glu Gly Tyr Lys Gln Met
 325 330 335
 Glu Gly Ile Cys Val Lys Glu Gln Ile Pro Gly Ala Phe Pro Ile Leu
 340 345 350
 Thr Asp Leu Thr Pro Glu Thr Thr Arg Arg Trp Lys Leu Gly Ser His
 355 360 365
 Pro His Ser Thr Tyr Val Lys Met Lys Met Gln Arg Asp Glu Ala Thr
 370 375 380
 Phe Pro Gly Leu Tyr Gly Lys Gln Val Ala Lys Leu Gly Ser Gln Ser
 385 390 395 400
 Arg Gln Ser Asp Arg Gly Thr Arg Leu Ile His Val Ile Asn Ala Leu
 405 410 415

Pro Pro Thr Cys Pro Pro Gln Lys Lys Lys Lys Lys Lys Lys Lys Gly
 420 425 430

Gly Arg

<210> 147

<211> 236

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 147

Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe Leu
 1 5 10 15

Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln Leu Gln
 20 25 30

Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly Gly Glu Val
 35 40 45

Val Leu Pro Ala Trp Tyr Xaa Leu His Gly Glu Val Ser Ser Ser Gln
 50 55 60

Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe Lys Gln Lys Glu Lys
 65 70 75 80

Glu Asp Gln Val Leu Ser Tyr Ile Asn Gly Val Thr Thr Ser Lys Pro
 85 90 95

Gly Val Ser Leu Val Tyr Ser Met Pro Ser Arg Asn Leu Ser Leu Arg
 100 105 110

Leu Glu Gly Leu Gln Glu Lys Asp Ser Gly Pro Tyr Ser Cys Ser Val
 115 120 125

Asn Val Gln Asp Lys Gln Gly Lys Ser Arg Gly His Ser Ile Lys Thr
 130 135 140

Leu Glu Leu Asn Val Leu Val Pro Pro Ala Pro Pro Ser Cys Arg Leu
 145 150 155 160

Gln Gly Val Pro His Val Gly Ala Asn Val Thr Leu Ser Cys Gln Ser
 165 170 175

Pro Arg Ser Lys Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu Pro
 180 185 190

Ser Phe Gln Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Gly Ser
 195 200 205

Leu Ser Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys

Asp Ala Ser Lys Leu Ala Tyr Xaa Lys Phe Thr Ser Ile Lys Tyr Gln
 50 55 60

Cys Asn Tyr Ser Thr
 65

<210> 150

<211> 61

<212> PRT

<213> Homo sapiens

<400> 150

Met His Glu Cys Gln Ser Phe Pro Leu Cys Val His Leu Arg Leu Val
 1 5 10 15

Leu Leu Leu Ser Phe Lys Thr Gln Val His Glu Phe His Glu Val Phe
 20 25 30

Pro His Tyr Ser His Phe Asn Phe Pro Ser Leu Asn Asn Tyr Asp Ile
 35 40 45

Asn Leu Leu Leu Asn His Glu Leu Trp His Thr Thr Pro
 50 55 60

<210> 151

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 151

Met Asn Leu Val Gly Phe Cys Leu Phe Ile Cys Leu Leu Leu Met Leu
 1 5 10 15

Leu Leu Leu Leu Leu Phe Ser Lys Phe Ser Ile Val Glu Lys Tyr Ala
 20 25 30

Ala Pro Glu Glu Met Ile Gly His Ser Pro Ala Trp Cys Trp Thr Leu
 35 40 45

Ser Ser Leu Ala Gln Pro Ser Pro Asp Leu Ser Val Tyr Leu Thr Leu
 50 55 60

Val Phe Tyr Ile Leu Gln Arg Gln Xaa Gln Asn Asn Pro Asn Leu Thr
 65 70 75 80

Gln Ile Pro Gly Ile His Leu Ile
 85

<210> 152

<211> 78
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 152
 Met Met Gly Asn Asp Leu Leu His Leu Val Phe Leu Gln Leu Ser Leu
 1 5 10 15
 Gly Val Ala Ser Gly Gly Trp Ile Leu Trp Pro Leu Arg Arg Leu Gly
 20 25 30
 Gly Ala His Thr Ser Lys Asp Xaa Asn Lys Asn Gly His Xaa Val His
 35 40 45
 Cys Leu Val Ile Thr Asn Glu Pro Leu Val Ser Xaa Lys Lys Ile Gly
 50 55 60
 Leu Ser Ser Pro His Thr Cys Pro Ser Thr Leu Gln Gln Phe
 65 70 75

<210> 153
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 153
 Met Met Val Trp Asn Leu Phe Pro Cys Phe Pro Pro Leu Leu Leu Leu
 1 5 10 15
 Gln Phe Ile Asp Cys Gln Gln Ser Ser Glu Ile Glu Gln Gly Phe Thr
 20 25 30
 Arg Ser Leu Leu Gly His Pro Ile Phe Phe Cys Pro Asp Pro Cys Trp
 35 40 45
 Gln Ser Cys Met Asn Cys Val Ile Leu Ser Val Leu Ser Phe Phe Phe
 50 55 60
 Leu Ile Arg Trp Ile Ser Lys Ile Val Ala Val Gln Lys Leu Glu Ser
 65 70 75 80
 Ser Ser Arg Arg Lys Pro Ile Leu Phe Leu Ile Ile Ser Cys Glu Ile

109

85

90

95

Ala Ser Phe Ile His Leu Phe Leu Ser Gln Met Ser Ala Glu Cys Cys
100 105 110

Cys Phe Tyr Leu Val Ile Leu Ile Cys Lys Tyr
115 120

<210> 154

<211> 68

<212> PRT

<213> Homo sapiens

<400> 154

Met Tyr Leu Gly Ser Arg Ile Val Lys Ala Leu Phe Phe Leu Leu Phe
1 5 10 15

Cys Ile Phe His Ile Trp Tyr Asn Glu His Val Leu Arg Thr Val Leu
20 25 30

Asp Leu Arg Lys Tyr Ala Asn Thr Val Gln Ile Val Leu Ala Ser Pro
35 40 45

Met Pro Ser Ser Ser Ile Ala Asn Val Ser Thr Leu Val Trp Cys Val
50 55 60

Cys Cys Asn Gly
65

<210> 155

<211> 43

<212> PRT

<213> Homo sapiens

<400> 155

Met Lys Cys Thr Glu Lys Cys Val Val Val Phe Phe Thr Phe Val Leu
1 5 10 15

Tyr Met Tyr Val Tyr Trp Val Leu Trp Ala Val Glu Ala Lys Leu Thr
20 25 30

Ser His Val Ala His Glu Met Leu Val Ser Cys
35 40

<210> 156

<211> 63

<212> PRT

<213> Homo sapiens

<400> 156

Met Phe Ile Leu Leu Ile Val Phe Val Phe Ser Lys Ser Lys Gln Val
1 5 10 15

Leu Ser Ile Cys Leu Lys Ile Phe Lys Val Glu Ile Asn Ser Ile Ser
20 25 30

Phe Cys Lys Asn Lys Lys Tyr Lys Asp Leu Pro Tyr Ala Phe Ala Ser
 35 40 45

Glu Lys Thr Gly Arg Thr Tyr Ser Asn Val Asn Asn Asp Tyr Leu
 50 55 60

<210> 157

<211> 61

<212> PRT

<213> Homo sapiens

<400> 157

Met Ile Val Tyr Trp Met Ile Trp Ala Leu Arg Ser Pro Leu Thr Thr
 1 5 10 15

Ala Gln Asn Ile His Ser Ser Thr Ala Leu Thr Glu Phe Ala Lys Cys
 20 25 30

Ile Lys Glu Val Thr Trp Arg Val Arg Ser Tyr Glu Thr Ile Cys Arg
 35 40 45

Lys Trp Gly Lys Lys Gly His Met Ala Gln Leu Lys Leu
 50 55 60

<210> 158

<211> 82

<212> PRT

<213> Homo sapiens

<400> 158

Met Arg Phe Phe Leu Glu Cys Val Leu Leu Ile Cys Phe Arg Ala Met
 1 5 10 15

Ser Ala Ile Tyr Thr His Thr Ser Ile Gly Asn Ala Gln Lys Leu Phe
 20 25 30

Thr Asp Gly Ser Ala Phe Arg Arg Val Arg Glu Pro Leu Pro Lys Glu
 35 40 45

Gly Lys Ser Trp Pro Gln Leu Glu Gln Ala Cys Leu Gly Pro Cys Ser
 50 55 60

Val Phe Gln Leu Gln Thr Ala Cys Ile Ile Pro Ser Cys Tyr Ser Ser
 65 70 75 80

Phe Thr

<210> 159

<211> 46

<212> PRT

<213> Homo sapiens

<400> 159

Met Cys Cys Ala Ser His Pro Cys Gln Arg Glu Gly Trp Leu Cys Val
 1 5 10 15

Ile Phe Thr Val Phe Leu Lys Val Thr Val Cys Val Phe Thr Phe Val
 20 25 30

Gln Ile Thr Gly Ser Lys Ala Ala Asn Ser Ala Ile Thr Cys
 35 40 45

<210> 160

<211> 187

<212> PRT

<213> Homo sapiens

<400> 160

Met Ala Cys Lys Gly Leu Leu Gln Gln Val Gln Gly Pro Arg Leu Pro
 1 5 10 15

Trp Thr Arg Leu Leu Leu Leu Leu Val Phe Ala Val Gly Phe Leu
 20 25 30

Cys His Asp Leu Pro Val Thr Gln Leu Leu Pro Gly Trp Leu Gly Glu
 35 40 45

Thr Leu Pro Leu Trp Gly Ser His Leu Leu Thr Val Val Arg Pro Ser
 50 55 60

Leu Gln Leu Ala Trp Ala His Thr Asn Ala Thr Val Ser Phe Leu Ser
 65 70 75 80

Ala His Cys Ala Ser His Leu Ala Trp Phe Gly Asp Ser Leu Thr Ser
 85 90 95

Leu Ser Gln Arg Leu Gln Ile Gln Leu Pro Asp Ser Val Asn Gln Leu
 100 105 110

Leu Arg Tyr Leu Arg Glu Leu Pro Leu Leu Phe His Gln Asn Val Leu
 115 120 125

Leu Pro Leu Trp His Leu Leu Leu Glu Ala Leu Ala Trp Ala Gln Glu
 130 135 140

His Cys His Glu Ala Cys Arg Gly Glu Val Thr Trp Asp Cys Met Lys
 145 150 155 160

Thr Gln Leu Ser Glu Ala Val His Trp Thr Trp Leu Cys Tyr Arg Thr
 165 170 175

Leu Gln Trp Leu Ser Trp Thr Gly His Leu Pro
 180 185

<210> 161

<211> 113

<212> PRT

<213> Homo sapiens

<400> 161

Met Ile Phe Ser Met Pro Gln Gln Gly Ser Ser Trp Phe Leu Ser Ala
 1 5 10 15

Phe Leu Ser Trp Pro Leu Ala Leu Ala Pro Ala Leu Thr Pro Thr Pro
 20 25 30

Ala Pro Ala Arg Ala Pro Gly Ala Pro Arg Ala Ala Gly Ala Pro Gly
 35 40 45

Arg Val Ala Ala Gly Arg Gly Thr Cys Ala Gly Ala Leu Ala Pro Gly
 50 55 60

Gln Glu Ala Trp Ser Ala Val Trp Glu Pro Gly Leu Phe Ile Trp Val
 65 70 75 80

Glu His Pro Leu Gly Cys Gln Gly His Gly Leu Asp Arg Phe Pro Leu
 85 90 95

Pro Thr Ala Leu Pro Leu Gln Gly Gly His Ala Ala Cys Cys Pro Gln
 100 105 110

Leu

<210> 162

<211> 292

<212> PRT

<213> Homo sapiens

<400> 162

Met Gly Ile Gln Thr Ser Pro Val Leu Leu Ala Ser Leu Gly Val Gly
 1 5 10 15

Leu Val Thr Leu Leu Gly Leu Ala Val Gly Ser Tyr Leu Val Arg Arg
 20 25 30

Ser Arg Arg Pro Gln Val Thr Leu Leu Asp Pro Asn Glu Lys Tyr Leu
 35 40 45

Leu Arg Leu Leu Asp Lys Thr Thr Val Ser His His Thr Leu Gly Leu
 50 55 60

Pro Val Gly Lys His Ile Tyr Leu Ser Thr Arg Ile Asp Gly Ser Leu
 65 70 75 80

Val Ile Arg Pro Tyr Thr Pro Val Thr Ser Asp Glu Asp Gln Gly Tyr
 85 90 95

Val Asp Leu Val Ile Lys Val Tyr Leu Lys Gly Val His Pro Lys Phe
 100 105 110

Pro Glu Gly Gly Lys Met Ser Gln Tyr Leu Asp Ser Leu Lys Val Gly
 115 120 125

Asp Val Val Glu Phe Arg Gly Pro Ser Gly Leu Leu Thr Tyr Thr Gly
 130 135 140

Lys Gly His Phe Asn Ile Gln Pro Asn Lys Lys Ser Pro Pro Glu Pro
 145 150 155 160
 Arg Val Ala Lys Lys Leu Gly Met Ile Ala Gly Gly Thr Gly Ile Thr
 165 170 175
 Pro Met Leu Gln Leu Ile Arg Ala Ile Leu Lys Val Pro Glu Asp Pro
 180 185 190
 Thr Gln Cys Phe Leu Leu Phe Ala Asn Gln Thr Glu Lys Asp Ile Ile
 195 200 205
 Leu Arg Glu Asp Leu Glu Glu Leu Gln Ala Arg Tyr Pro Asn Arg Phe
 210 215 220
 Lys Leu Trp Phe Thr Leu Asp His Pro Pro Lys Asp Trp Ala Tyr Ser
 225 230 235 240
 Lys Gly Phe Val Thr Ala Asp Met Ile Arg Glu His Leu Pro Ala Pro
 245 250 255
 Gly Asp Asp Val Leu Val Leu Leu Cys Gly Pro Pro Pro Met Val Gln
 260 265 270
 Leu Ala Cys His Pro Asn Leu Asp Lys Leu Gly Tyr Ser Gln Lys Met
 275 280 285
 Arg Phe Thr Tyr
 290

<210> 163
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 163
 Met Val Met Val Phe Phe Leu Thr Phe Ser Gly Ser His Gly Cys Val
 1 5 10 15
 Pro Thr Ser Gln Pro Trp Lys Asp Ala Glu Asp Gln Val Gly Cys Val
 20 25 30
 His Ala Val Ala Trp Val Asn Ser Ala Leu Tyr Thr Val Leu Cys Pro
 35 40 45
 Phe Leu Gly Lys Pro Lys Cys Ser Phe Ser Phe Asp Arg Asn Glu Ser
 50 55 60
 Glu Asp Leu Asn Lys Gln Glu Val Lys Cys Arg Ala Val Pro Val Ser
 65 70 75 80
 Val Ser Ser Ser Met Leu
 85

<210> 164

<211> 106
 <212> PRT
 <213> Homo sapiens

<400> 164
 Met Leu Ala Thr Met Val Val Gln Ile Leu Arg Leu Arg Pro His Thr
 1 5 10 15
 Gln Lys Trp Ser His Val Leu Thr Leu Leu Gly Leu Ser Leu Val Leu
 20 25 30
 Gly Leu Pro Trp Ala Leu Ile Phe Phe Ser Phe Ala Ser Gly Thr Phe
 35 40 45
 Gln Leu Val Val Leu Tyr Leu Phe Ser Ile Ile Thr Ser Phe Gln Gly
 50 55 60
 Phe Leu Ile Phe Ile Trp Tyr Trp Ser Met Arg Leu Gln Ala Arg Gly
 65 70 75 80
 Gly Pro Ser Pro Leu Lys Ser Asn Ser Asp Ser Ala Arg Leu Pro Ile
 85 90 95
 Ser Ser Gly Ser Thr Ser Ser Ser Arg Ile
 100 105

<210> 165
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 165
 Met Ala Trp Arg Val Trp Cys Leu Trp Gly Ile Pro Pro Leu Phe Cys
 1 5 10 15
 Ser Pro Gly Thr Leu Ser Cys Val Cys Val Ser Phe Leu Ser Pro Gly
 20 25 30
 Asn Gly Met Ala Ser Glu His His Pro Arg Ser Ile Phe Pro Leu Gln
 35 40 45
 Asn Asp Val Ser Ser His Val Cys Phe Cys
 50 55

<210> 166
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 166
 Met Arg Ser Asp Cys Val Leu Ile Trp Gln Leu Val Gly Val Leu Leu
 1 5 10 15
 Ala Ser Gly Leu Ser Gly Asp Arg Ala Pro Leu Ile Val Leu Thr Ala
 20 25 30

Cys Asp Lys Ala Trp Ala Thr Val
35 40

```
<210> 167
<211> 65
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids
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```
<400> 167
Met Trp Ala Cys Trp Gly Met Leu Gly Cys Ile Pro Leu Phe Val Pro
 1           5           10           15
```

Trp Val Pro Val Leu Gly Lys His Phe Ser Gly Cys Xaa Tyr Leu Cys
20 25 30

Gly Arg Xaa Pro Cys Trp Ile Ala Phe Ile Cys Val Arg Thr Pro Cys
35 40 45

Gly Pro Thr Thr Ala Pro Thr Ala Thr Leu Lys Trp Ser Pro Xaa Xaa
50 55 60

Thr
65

```
<210> 168
<211> 46
<212> PRT
<213> Homo sapiens
```

```
<400> 168
Met Arg Tyr Trp Thr Asp Met Arg Arg Asn Tyr Arg Val Thr Tyr Gln
  1             5             10             15
```

Val Val Leu Leu Phe Leu Cys Phe Ser Leu Leu Thr Glu Cys Lys Thr
20 25 30

Phe Glu Pro Arg Ser Glu Arg Ser Leu Phe Ser Tyr Pro Leu
 35 40 45

<210> 169
 <211> 140
 <212> PRT
 <213> Homo sapiens

<400> 169
 Met Phe Ala Gly Leu Phe Phe Leu Phe Phe Val Arg Phe Gly Ile Gly
 1 5 10 15
 Arg Gln Leu Leu Ile Lys Phe Pro Trp Phe Phe Ser Phe Gly Tyr Phe
 20 25 30
 Ser Lys Gln Gly Pro Thr Gln Lys Gln Ile Asp Ala Ala Ser Phe Thr
 35 40 45
 Leu Thr Phe Phe Gly Gln Gly Tyr Ser Gln Gly Thr Gly Thr Asp Lys
 50 55 60
 Asn Lys Pro Asn Ile Lys Ile Cys Thr Gln Val Lys Gly Pro Glu Ala
 65 70 75 80
 Gly Tyr Val Ala Thr Pro Ile Ala Met Val Gln Ala Ala Met Thr Leu
 85 90 95
 Leu Ser Asp Ala Ser His Leu Pro Lys Ala Gly Gly Val Phe Thr Pro
 100 105 110
 Gly Ala Ala Phe Ser Lys Thr Lys Leu Ile Asp Arg Leu Asn Lys His
 115 120 125
 Gly Ile Glu Phe Ser Val Ile Ser Ser Ser Glu Val
 130 135 140

<210> 170
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 170
 Met Gln Glu Cys Leu Leu His Gly Cys Cys Cys Tyr Leu Leu Arg Leu
 1 5 10 15
 Gly Val Leu Gly Thr Val Gln Cys Ile Ser Thr Trp Leu Ile Leu Thr
 20 25 30
 Ala Asn Glu Gln His Arg Leu Lys Glu Thr Ser Asn Ser Gln Ser Pro
 35 40 45
 Ala Val Ser Arg Ala
 50

<210> 171

<211> 167
 <212> PRT
 <213> Homo sapiens

<400> 171

```

Met Cys Gly Phe Leu Ser Leu Gln Ile Met Gly Pro Leu Ile Val Leu
 1              5              10              15

Val Gly Leu Cys Phe Phe Val Val Ala His Val Lys Lys Arg Asn Thr
      20              25              30

Leu Asn Ala Gly Gln Asp Ala Ser Glu Arg Glu Glu Gly Gln Ile Gln
      35              40              45

Ile Met Glu Pro Val Gln Val Thr Val Gly Asp Ser Val Ile Ile Phe
      50              55              60

Pro Pro Pro Pro Pro Pro Tyr Phe Pro Glu Ser Ser Ala Ser Ala Val
      65              70              75              80

Ala Glu Ser Pro Gly Thr Asn Ser Leu Leu Pro Asn Glu Asn Pro Pro
      85              90              95

Ser Tyr Tyr Ser Ile Phe Asn Tyr Gly Thr Pro Thr Ser Glu Gly Ala
      100              105              110

Ala Ser Glu Arg Asp Cys Glu Ser Ile Tyr Thr Ile Ser Gly Thr Asn
      115              120              125

Ser Ser Ser Glu Ala Ser His Thr Pro His Leu Pro Ser Glu Leu Pro
      130              135              140

Pro Arg Tyr Glu Glu Lys Glu Asn Ala Ala Ala Thr Phe Leu Pro Leu
      145              150              155              160

Ser Ser Glu Pro Ser Pro Pro
      165

```

<210> 172
 <211> 325
 <212> PRT
 <213> Homo sapiens

<400> 172

```

Met Ser Ile Ser Leu Ser Ser Leu Ile Leu Leu Pro Ile Trp Ile Asn
 1              5              10              15

Met Ala Gln Ile Gln Gln Gly Gly Pro Asp Glu Lys Glu Lys Thr Thr
      20              25              30

Ala Leu Lys Asp Leu Leu Ser Arg Ile Asp Leu Asp Glu Leu Met Lys
      35              40              45

Lys Asp Glu Pro Pro Leu Asp Phe Pro Asp Thr Leu Glu Gly Phe Glu
      50              55              60

Tyr Ala Phe Asn Glu Lys Gly Gln Leu Arg His Ile Lys Thr Gly Glu

```

65		70		75		80									
Pro	Phe	Val	Phe	Asn	Tyr	Arg	Glu	Asp	Leu	His	Arg	Trp	Asn	Gln	Lys
			85						90					95	
Arg	Tyr	Glu	Ala	Leu	Gly	Glu	Ile	Ile	Thr	Lys	Tyr	Val	Tyr	Glu	Leu
			100					105					110		
Leu	Glu	Lys	Asp	Cys	Asn	Leu	Lys	Lys	Val	Ser	Ile	Pro	Val	Asp	Ala
		115					120					125			
Thr	Glu	Ser	Glu	Pro	Lys	Ser	Phe	Ile	Phe	Met	Ser	Glu	Asp	Ala	Leu
	130					135					140				
Thr	Asn	Pro	Gln	Lys	Leu	Met	Val	Leu	Ile	His	Gly	Ser	Gly	Val	Val
145					150					155					160
Arg	Ala	Gly	Gln	Trp	Ala	Arg	Arg	Leu	Ile	Ile	Asn	Glu	Asp	Leu	Asp
				165					170					175	
Ser	Gly	Thr	Gln	Ile	Pro	Phe	Ile	Lys	Arg	Ala	Val	Ala	Glu	Gly	Tyr
			180					185					190		
Gly	Val	Ile	Val	Leu	Asn	Pro	Asn	Glu	Asn	Tyr	Ile	Glu	Val	Glu	Lys
	195						200					205			
Pro	Lys	Ile	His	Val	Gln	Ser	Ser	Ser	Asp	Ser	Ser	Asp	Glu	Pro	Ala
	210					215					220				
Glu	Lys	Arg	Glu	Arg	Lys	Asp	Lys	Val	Ser	Lys	Glu	Thr	Lys	Lys	Arg
225					230					235					240
Arg	Asp	Phe	Tyr	Glu	Lys	Tyr	Arg	Asn	Pro	Gln	Arg	Glu	Lys	Glu	Met
				245					250					255	
Met	Gln	Leu	Tyr	Ile	Arg	Glu	Asn	Gly	Ser	Pro	Glu	Glu	His	Ala	Ile
		260						265					270		
Tyr	Val	Trp	Asp	His	Phe	Ile	Ala	Gln	Ala	Ala	Ala	Glu	Asn	Val	Phe
		275					280					285			
Phe	Val	Ala	His	Ser	Tyr	Gly	Gly	Leu	Ala	Phe	Val	Glu	Leu	Gln	Leu
	290					295					300				
Met	Ile	Lys	Gln	Ala	Asn	Ser	Asp	Ala	Gly	Lys	Cys	Phe	Arg	Leu	Ala
305					310					315					320
Met	Trp	Lys	Asn	His											
				325											

<210> 173

<211> 113

<212> PRT

<213> Homo sapiens

<400> 173

Met His Pro Pro Leu Thr Pro Pro Thr Pro Leu Cys Leu Trp Leu Arg

1	5	10	15
Leu Leu Lys	Ala Gln Ile Leu Ser Tyr	Pro Val Pro Arg Phe	Glu Thr
	20	25	30
His Ser Leu	Ile Ser Arg Cys Ser Gln Val	Pro Pro Thr	Phe Leu Trp
	35	40	45
Asp Ile Lys	Lys Gly Val Arg Gly Gln Arg	Glu Pro Ser	Gly Pro Leu
	50	55	60
Leu Pro Tyr	Thr Leu His Cys Pro Phe Ser	Pro His Gln Asn	Ala Gln
	65	70	75
Arg Arg Cys	Asp Asp Ala Thr Glu Asp Tyr	Ala Thr Trp	Ser Asn Arg
	85	90	95
Ser Gly Gln	His Asp Gln Leu Ser Arg Gly	Cys Leu Leu	Pro Phe Leu
	100	105	110

Leu

<210> 174

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 174

Met Gly Arg	Leu Gly Leu Cys Leu Leu Arg	Ser Leu Trp Val	Pro Gln
1	5	10	15
Arg Arg Ala	Thr Thr Leu Gly Trp Thr	Leu Ala Leu Arg	Val Leu Pro
	20	25	30
Thr Ala Arg	Ala Xaa Arg Xaa Leu Pro	Val Ala Ala Asp	Thr Ala Arg
	35	40	45
Arg Ala Cys	Gly Ala His Thr Arg Ile	Arg Val Leu Gly	
	50	55	60

<210> 175

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 175

Met	Asp	Ile	Asn	Phe	Cys	Leu	Arg	Gly	Arg	His	Gly	Val	Leu	Phe	Cys
1				5				10					15		

Phe	Val	Leu	Phe	Cys	Phe	Cys	His	Leu	Leu	Thr	Val	Leu	Ser	Thr	His
		20						25					30		

Arg	Ala	Phe	Tyr	Tyr	Leu	Ser	Ala	Xaa
	35						40	

<210> 176

<211> 42

<212> PRT

<213> Homo sapiens

<400> 176

Met	Ile	Lys	Leu	Gln	Lys	Val	Ser	Glu	Val	Ile	Lys	Val	Leu	Lys	Met
1				5				10					15		

Leu	Leu	Tyr	Pro	Leu	Val	Leu	Leu	Leu	Ser	Leu	Lys	Leu	Asp	Thr	Lys
		20						25					30		

Ala	Thr	Ile	Phe	Ala	Val	Leu	Glu	Asp	Val
	35						40		

<210> 177

<211> 47

<212> PRT

<213> Homo sapiens

<400> 177

Met	Tyr	Phe	Phe	Thr	Phe	Tyr	Phe	Ser	Ile	Ser	Ser	Phe	Met	Phe	Phe
1				5				10					15		

Leu	Leu	Val	Ile	Val	Lys	Ala	Thr	Asn	Gly	Pro	Arg	Tyr	Val	Val	Gly
		20						25					30		

Cys	Arg	Arg	Gln	Val	Ile	Leu	Tyr	Ile	Cys	Ile	Val	Pro	Asp	Asp
	35						40					45		

<210> 178

<211> 50

<212> PRT

<213> Homo sapiens

<400> 178

Met	Ser	Gly	Phe	Lys	Glu	Phe	Asp	Phe	Val	Val	Pro	Trp	Trp	Ser	Ile
1				5				10						15	

Ser	Phe	Leu	Leu	Ser	Phe	Leu	Leu	Leu	Leu	Ser	Phe	Trp	Ser	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20 25 30

Trp Val Tyr Thr Phe His Gln Ile Trp Asn Ile Phe Gly Tyr Tyr Phe
 35 40 45

Ser Lys
 50

<210> 179
<211> 227
<212> PRT
<213> Homo sapiens

<400> 179

Met Val Leu Thr Ala Thr Val Leu Asn Val Tyr Ala Ser Ile Phe Leu
 1 5 10 15

Ile Thr Ala Leu Ser Val Ala Arg Tyr Trp Val Val Ala Met Ala Ala
 20 25 30

Gly Pro Gly Thr His Leu Ser Leu Phe Trp Ala Arg Ile Ala Thr Leu
 35 40 45

Ala Val Trp Ala Ala Ala Ala Leu Val Thr Val Pro Thr Ala Val Phe
 50 55 60

Gly Val Glu Gly Glu Val Cys Gly Val Arg Leu Cys Leu Leu Arg Phe
 65 70 75 80

Pro Ser Arg Ser Trp Leu Gly Ala Tyr Gln Leu Gln Arg Val Val Leu
 85 90 95

Ala Phe Met Val Pro Leu Gly Val Ile Thr Thr Ser Tyr Leu Leu Leu
 100 105 110

Leu Ala Phe Leu Gln Arg Arg Gln Arg Arg Arg Gln Asp Ser Arg Val
 115 120 125

Val Ala Arg Ser Val Arg Ile Leu Val Ala Ser Phe Phe Leu Cys Trp
 130 135 140

Phe Pro Asn His Val Val Thr Leu Trp Gly Val Leu Val Gln Phe Ala
 145 150 155 160

Leu Val Pro Trp Ile Ser Thr Phe Tyr Thr Leu Gln Pro Tyr Val Phe
 165 170 175

Pro Val Thr Thr Cys Leu Ala His Ser Asn Ser Cys Leu Asn Pro Ile
 180 185 190

Ala Tyr Val Leu Ser Arg Ile Pro Ala His Trp Arg Pro Leu Leu Val
 195 200 205

Asp Pro Ser Ser Val Pro Ser Leu Met His Ser Leu Ser Ile His Ser
 210 215 220

Ala Pro Lys

225

<210> 180
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 180
 Met Phe Arg Ser Ser Ile Ser Leu Met Val Phe Ser Leu Ile Leu Leu
 1 5 10 15
 Leu Thr Thr Glu Arg Arg Ile Leu Ala Cys Pro Pro Ile Ile Leu Asn
 20 25 30
 Ser Ser Ile Phe Leu Ser Asp Leu Ser Val Leu Pro
 35 40

<210> 181
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 181
 Met Asn Pro Leu Ser Phe Leu Phe Cys Phe Ile Ile Cys Arg Leu Leu
 1 5 10 15
 Ala Glu Asn Ala Ile Asn Ile Glu Ile Leu Thr Gly Thr Tyr Glu Asn
 20 25 30
 Phe Pro Thr Lys Ala Tyr Tyr Phe Arg Gln Arg Ser Arg Lys
 35 40 45

<210> 182
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 182
 Met Ala Ser Leu Leu Arg Thr Cys Cys Val Pro Tyr Ile Val Leu Ser
 1 5 10 15
 Ile Tyr Leu Asp Tyr Leu Ile Lys Ser Ser Gln Ser Leu Tyr Leu Thr
 20 25 30
 Asp Gly Glu Ile Lys Ala His Gly Thr
 35 40

<210> 183
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 183
 Met Leu Gln Asp Leu Leu Ser Ala Leu Trp Phe Cys His Pro Cys Cys

1 5 10 15
 Leu Cys Cys Gly Leu Cys Trp Leu Gly Val Asp Ala Gly Cys Ser Gln
 20 25 30

Gly Gly Ser Gly Cys Pro Gln Gly Lys Ile Ser Asn Asn Gly Ile
 35 40 45

<210> 184
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 184
 Met Lys Phe Ala Pro Val Tyr Met Tyr Leu Ser Phe Ile Cys Leu Cys
 1 5 10 15

Leu Phe Tyr Cys Asn Ser Ile Asp Thr His His Cys Phe Val Ser Asp
 20 25 30

Tyr Leu Ala Phe Glu Ser Ser Met Arg Glu Ala Phe Thr Glu Leu Leu
 35 40 45

Ile Leu Ile Lys Gly Glu Ser Asn Val Leu Lys Lys Met Gln Asn His
 50 55 60

His Leu Cys Gln Ser Tyr
 65 70

<210> 185
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 185
 Met Gly Leu Lys Leu Pro Ile Phe Leu Trp Phe Leu Tyr Phe Phe Ile
 1 5 10 15

Pro Leu Ser Ser Cys Tyr Leu Leu Leu Leu Pro His Leu Pro Ser Gly
 20 25 30

Ser Trp Asp Ser Met Leu Ser Phe Pro
 35 40

<210> 186
 <211> 92
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 186

Met Ala Gly Cys Leu Gly Ser Tyr Leu Leu Val Met Ile Leu Ile Leu
 1 5 10 15

Cys Xaa Ala His Phe Phe Ile Cys Gly Asn Glu Asp Asn Arg Val Leu
 20 25 30

Arg Tyr Asn Leu Glu Gln Cys Pro Ser His Ser Lys His Val Ile Asn
 35 40 45

Gly Ser Ser Tyr Cys Tyr Tyr Tyr Tyr Tyr Tyr Tyr Leu Glu Asp Arg
 50 55 60

Gly Ser Val Leu Phe Ile Ile Pro Ser Pro Ala Leu Ser Thr Val Pro
 65 70 75 80

Gly Thr Ile Gln Thr Cys Ile Trp Met Asn Asp Lys
 85 90

<210> 187

<211> 71

<212> PRT

<213> Homo sapiens

<400> 187

Met Pro Ala Gly Val Pro Met Ser Thr Tyr Leu Lys Met Phe Ala Ala
 1 5 10 15

Ser Leu Leu Ala Met Cys Ala Gly Ala Glu Val Val His Arg Tyr Tyr
 20 25 30

Arg Pro Asp Leu Thr Ile Pro Glu Ile Pro Pro Lys Arg Gly Glu Leu
 35 40 45

Lys Thr Glu Leu Leu Gly Leu Lys Glu Arg Lys His Lys Pro Gln Val
 50 55 60

Ser Gln Gln Glu Glu Leu Lys
 65 70

<210> 188

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 188

Met Ala Gly Phe Ala Ser Tyr Pro Trp Ser Asp Phe Pro Trp Cys Trp

Ala Thr Ala Asn Lys Leu Leu Ala Ala Ser Phe Arg Asp Leu Met Asp
20 25 30

Val Leu Thr Cys Pro Arg Pro Arg
 35 40

<210> 191
 <211> 66
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 191
 Met Gln His Leu Leu Leu His Ser Leu Cys Leu Ser Cys Ser Thr Met
 1 5 10 15
 Ala Arg Asn Val Pro Ala Ser Pro Ser Pro Ser Ala Val Ile Val Ser
 20 25 30
 Phe Leu Arg Xaa Pro Gln Pro Cys Phe Leu Tyr Ser Leu Gln Asn Cys
 35 40 45
 Glu Ser Ile Lys Pro Leu Phe Phe Ile Asn Ser Pro Val Ser Ser Ser
 50 55 60
 Ser Leu
 65

<210> 192
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 192
 Met Leu Pro Ser Trp Trp Ala Leu Gly Trp Met Thr Leu Lys Ile Leu
 1 5 10 15
 Gln Met Trp Val Gln Ala Cys Thr His Thr Met Glu Tyr Gly His Ser
 20 25 30
 Tyr Thr Gly Gly Val Glu Ser Gly Ser Ala Ala Trp His Leu Thr Glu
 35 40 45
 Val Gly Pro Lys Arg Thr His Asp Tyr Ala Glu Asn Trp Ile Gly Ser
 50 55 60
 Leu Ser
 65

<210> 193
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 193

Met His Phe Ser Val Ala His Ser Ile Trp Gly Ile Leu Ile Leu Leu
 1 5 10 15

Ser Leu Tyr Glu Gly Val Ile Ser Trp Val Phe Asn Phe Gln Met Phe
 20 25 30

Thr Lys Leu Leu Leu Cys Ala Lys His Tyr Ser His Cys Phe Glu Ser
 35 40 45

<210> 194

<211> 66

<212> PRT

<213> Homo sapiens

<400> 194

Met Ser Leu Ile Leu Leu Gly Ser Pro Ile Ile Pro Leu Trp Ser Tyr
 1 5 10 15

Thr Ser Ala Thr Gln Ala Ala Ala Leu Val Thr Ser His Val Trp Lys
 20 25 30

Pro Ser Leu Glu Ala His Gln Ile Asn Ile Ser Pro Glu Pro Ser Ile
 35 40 45

His Tyr Asp Arg Trp His Thr Gln Ser Asn Cys Ser Leu Ile Asn Ser
 50 55 60

Leu Gln
 65

<210> 195

<211> 57

<212> PRT

<213> Homo sapiens

<400> 195

Met Lys Gln Thr Tyr Trp Gln Thr His Ile Leu Leu Val Leu Thr Leu
 1 5 10 15

Tyr Phe Ile Val Leu Ala Tyr Ser Pro Phe Leu Arg Phe Leu Leu Arg
 20 25 30

Asn Ile Gly Thr His Pro Leu Leu Cys Ala Glu Gly Ile Thr Ser Phe
 35 40 45

Phe Leu Ser Tyr Lys Asn Met Leu Tyr
 50 55

<210> 196

<211> 52

<212> PRT

<213> Homo sapiens

<400> 196

Met Gly Pro Asn Phe Val Val Leu Cys Leu Asn Leu Leu Gln Asp Thr
 1 5 10 15

Leu Ala Tyr Ala Thr Ala Leu Leu Asn Glu Lys Glu Gln Ser Gly Ser
 20 25 30

Ser Asn Gly Ser Glu Ser Ser Pro Ala Asn Glu Asn Gly Asp Arg His
 35 40 45

Leu Gln Gln Val
 50

<210> 197

<211> 43

<212> PRT

<213> Homo sapiens

<400> 197

Met Ile Val Ile Ala Val Ser Leu Ser Leu Phe Cys Asp Val Val Ser
 1 5 10 15

Ser Glu Cys Met Ser Cys Phe Thr Pro Lys Phe Ala Asp Ile Val Ala
 20 25 30

Asn Ala Tyr Gln Asn Glu Ser Tyr Ile Phe Ile
 35 40

<210> 198

<211> 52

<212> PRT

<213> Homo sapiens

<400> 198

Met Leu Leu Pro Val Asn Thr Leu Leu Tyr Ile Leu Leu Thr Pro Leu
 1 5 10 15

Cys Phe Phe Tyr Gly Thr Ser Arg Pro Pro Tyr Leu Glu Leu Val Thr
 20 25 30

Leu Leu Lys Lys Lys Lys Gln Ser Val Gly Phe Ser Val Cys Ile Leu
 35 40 45

Glu Ala Gly Arg
 50

<210> 199

<211> 40

<212> PRT

<213> Homo sapiens

<400> 199

Met Ile Ile Val Leu Phe Ser Leu Ser Phe Leu Pro Leu Leu Pro Ser
 1 5 10 15

Leu Leu Leu Ser Ser Tyr Leu Cys Leu Phe Phe Phe Pro Ser Gln Ser
 20 25 30

Pro Ser Ser Phe Phe Phe His Leu
 35 40

<210> 200

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 200

Met Thr Glu Gly His Val Phe Cys Phe Ala Leu Cys Cys Val Leu Val
 1 5 10 15

Phe Leu Ser Met Thr Leu Leu Val Xaa Ser Leu Glu Lys Thr Asn Ala
 20 25 30

Gly Gly Val Ile Ala Trp Gly Cys Ile Ser Val Ser Val Gln Thr Gln
 35 40 45

Thr Phe Ser Ser Pro Thr Ser Tyr Gln Thr Leu Phe Ile Ala Cys Lys
 50 55 60

Leu Trp Asn Pro Arg Lys Leu
 65 70

<210> 201

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 201

Met Ile Gly Leu Thr Ile Ile Ala Cys Phe Ala Val Ile Val Ser Ala
 1 5 10 15

Lys Arg Ala Val Glu Arg His Glu Ser Leu Thr Ser Trp Asn Leu Ala
 20 25 30

Lys Lys Ala Lys Xaa Arg Glu Glu Ala Ala Leu Ala Ala Gln Ala Lys
 35 40 45

Ala Asn Asp Ile Leu Ser Asp Lys Val Phe Thr

50

55

<210> 202
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 202
 Met Leu Thr Gly Ser His Pro Gln Thr His Thr Cys Trp Leu Gly Thr
 1 5 10 15
 Arg Leu Trp Val Val Leu Ser Cys Leu Ala Ser Leu Thr Val Ser Asp
 20 25 30
 Cys Pro Glu His Gln Val Ser Ser Cys Ile Ser Ser Trp Pro Gly Glu
 35 40 45
 His Ser Val Ser Phe Gln Pro Phe Pro Pro Phe Pro His Ser Leu Gly
 50 55 60
 Gly Thr Glu Val Gly Val Glu Glu Ser Gln Met Ala Gly Val Gly Ile
 65 70 75 80

<210> 203
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 203
 Met Ile Ser Gly Val Leu Ile Phe Asn Leu Ile Ala Ser Ser Trp Val
 1 5 10 15
 Leu Cys Phe Pro Leu Cys Asp Leu Ser Cys Gln Lys Thr Leu Arg Ile
 20 25 30
 Phe Phe Ala Ser Phe Phe His Ala Val Cys Val His Val Ser Cys Thr
 35 40 45
 Ser Trp Gln Pro Leu Val Leu Phe Ile Lys Trp Trp Val Val Gly Cys
 50 55 60
 Ser Pro Ala Val Ser Leu
 65 70

<210> 204
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 204
 Met Leu His Met Phe Leu Leu Leu Leu Tyr Phe Phe Lys Asn Ser Lys
 1 5 10 15

Ser Leu Phe Met Cys His Trp Ile Asn Leu Ser Asp Asn Val Ser His
 20 25 30

Lys Asn Leu Leu Asp Arg Leu Phe Phe Ser Cys Thr Leu Asn Gly Gly
 35 40 45

Val Glu Val Ser Gly Glu Gln Trp Ile Thr Lys Ser Lys Leu Trp Lys
 50 55 60

Ile Val Lys Arg Met Glu Lys Leu Asn Thr Arg Tyr Gln Lys
 65 70 75

<210> 205

<211> 115

<212> PRT

<213> Homo sapiens

<400> 205

Met Cys Met Ser Val Gly Ala His Ile Cys Val Cys Val Cys Met Cys
 1 5 10 15

Val Leu His Val Cys Gly Glu Val Ser Ser Val Arg Ala Cys Asp Ser
 20 25 30

Trp Asp Leu His Ser Cys Val Leu Pro Gln Arg Pro Gln Pro Gly Gln
 35 40 45

Ala Leu Thr Phe Cys Ala Pro Cys Ile Glu Pro Val Cys Cys Gly Cys
 50 55 60

Leu Trp Pro Pro Met Gly Asn Ser Gly Glu Leu Ala Gly Gly Cys Ala
 65 70 75 80

Gln Ser Pro Gly Cys Cys Tyr Cys His Ser Ala Gln Leu Gly Gln Ala
 85 90 95

Val Ala Pro Glu Gly Val Arg Arg Glu Leu Trp Glu His Leu Tyr Ser
 100 105 110

Val Leu Lys
 115

<210> 206

<211> 50

<212> PRT

<213> Homo sapiens

<400> 206

Met Pro Gly Cys Trp Val Leu Glu Leu Val Asp His Trp Leu Ala Ser
 1 5 10 15

Leu Trp Leu Val Val Ala Val Thr Glu Cys Ala Ala Arg Pro Glu Trp
 20 25 30

Leu Phe Trp Leu Cys Pro Pro Ser Cys Ser Met Pro Gly Gly Gly Gly

35 40 45
 Asp Thr
 50

 <210> 207
 <211> 57
 <212> PRT
 <213> Homo sapiens

 <400> 207
 Met Lys Phe Tyr Ala Val Leu Leu Ser Ile Cys Leu Leu Leu Ser Cys
 1 5 10 15
 Trp Cys Ala Cys His Val Arg Asp Cys Asn Leu Ile Cys Leu Phe Ser
 20 25 30
 Thr Val Lys Ala Ile Thr Arg Glu Leu Leu Gln Leu Pro Ser Tyr Val
 35 40 45
 Lys Arg Phe Phe Phe Asn Ser Leu Arg
 50 55

 <210> 208
 <211> 56
 <212> PRT
 <213> Homo sapiens

 <400> 208
 Met Leu Val Ala Pro Phe Asn Leu Leu Phe Glu Met Ala Pro Phe Asn
 1 5 10 15
 Ile Phe Leu Phe Pro Gln Trp Gly Leu Leu Trp Leu Met Leu Tyr Leu
 20 25 30
 Leu Tyr Val Phe Gln Ala Ser Leu Arg Thr Pro Glu Leu Thr Trp Glu
 35 40 45
 Arg Val Arg Ser Gln Val Asp Gln
 50 55

 <210> 209
 <211> 49
 <212> PRT
 <213> Homo sapiens

 <400> 209
 Met Leu Leu Thr Cys Ile Leu Leu His Leu Trp Ile Val Val Asp Ser
 1 5 10 15
 Val Ile Tyr Met Lys Pro Thr Ser Arg Asp Gly Cys Leu Leu Ser Ala
 20 25 30
 Leu Gln Met Ala Arg Ser Leu Ile Ile Gln Leu Asn His Ser Ser Ser
 35 40 45

Asn

<210> 210
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 210
 Met Pro Leu Cys Gly Leu Tyr Cys Leu Arg Ile Leu Met Phe Pro Leu
 1 5 10 15
 Arg Ser Ala Asn Ser Val Pro Leu Gln Cys Leu Pro Pro Ser Ser Leu
 20 25 30
 Ala Asn Lys Asp Ser His Phe Arg Ala Pro Arg Lys
 35 40

<210> 211
 <211> 44
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 211
 Met Ser Pro Ser Pro Arg Trp Gly Phe Leu Cys Val Leu Phe Thr Ala
 1 5 10 15
 Val Xaa Pro Ala Pro Ser Thr Ala Xaa Val Gln Asp Lys Cys Pro Val
 20 25 30
 Asn Thr Trp Glu Ala Met Gln Ala Cys Val His Gly
 35 40

<210> 212
 <211> 160
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (136)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 212

Met Ala Phe Thr Phe Ala Ala Phe Cys Tyr Met Leu Ser Leu Val Leu
 1 5 10 15
 Cys Ala Ala Leu Ile Phe Phe Ala Ile Trp His Ile Ile Ala Phe Asp
 20 25 30
 Glu Leu Arg Thr Asp Phe Lys Ser Pro Ile Asp Gln Cys Asn Pro Val
 35 40 45
 His Ala Arg Glu Arg Leu Arg Asn Ile Glu Arg Ile Cys Phe Leu Leu
 50 55 60
 Arg Lys Leu Val Leu Pro Glu Tyr Ser Ile His Ser Leu Phe Cys Ile
 65 70 75 80
 Met Phe Leu Cys Ala Gln Glu Trp Leu Thr Leu Gly Leu Asn Val Pro
 85 90 95
 Leu Leu Phe Tyr His Phe Trp Arg Tyr Phe His Cys Pro Ala Asp Ser
 100 105 110
 Ser Glu Leu Ala Tyr Asp Pro Pro Val Val Met Asn Ala Asp Thr Leu
 115 120 125
 Ser Tyr Cys Gln Lys Glu Ala Xaa Cys Lys Leu Ala Phe Tyr Leu Leu
 130 135 140
 Ser Phe Phe Tyr Tyr Leu Tyr Cys Met Ile Tyr Thr Leu Val Ser Ser
 145 150 155 160

<210> 213
 <211> 198
 <212> PRT
 <213> Homo sapiens

<400> 213
 Met Tyr Arg Glu Arg Leu Arg Thr Leu Leu Val Ile Ala Val Val Met
 1 5 10 15
 Ser Leu Leu Asn Ala Leu Ser Thr Ser Gly Gly Ser Ile Ser Trp Asn
 20 25 30
 Asp Phe Val His Glu Met Leu Ala Lys Gly Glu Val Gln Arg Val Gln
 35 40 45
 Val Val Pro Glu Ser Asp Val Val Glu Val Tyr Leu His Pro Gly Ala
 50 55 60
 Val Val Phe Gly Arg Pro Arg Leu Ala Leu Met Tyr Arg Met Gln Val
 65 70 75 80
 Ala Asn Ile Asp Lys Phe Glu Glu Lys Leu Arg Ala Ala Glu Asp Glu
 85 90 95

Leu Asn Ile Glu Ala Lys Asp Arg Ile Pro Val Ser Tyr Lys Arg Thr
 100 105 110
 Gly Phe Phe Gly Lys Cys Pro Val Leu Cys Gly Asp Asp Gly Ser Gly
 115 120 125
 Pro Gly His Pro Val Val Cys Phe Pro Ser Gly Arg Asp Asp Trp Arg
 130 135 140
 His Arg Arg Arg Trp Thr Ser Arg Ser Arg Leu Leu Cys Trp Lys Ala
 145 150 155 160
 Leu Met Gly Ser Val Gly Ala Asp His Thr Arg Glu Leu Arg Lys Pro
 165 170 175
 Ser Gly Ser His Arg Pro Pro Phe Asn Val Val Ile Pro Trp Trp Trp
 180 185 190
 Lys Gln Asp Asp Gly Pro
 195

<210> 214
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 214
 Met Asn Ser Thr Leu Cys Val Val Leu Ser Leu Met Cys Met Asn Ser
 1 5 10 15
 Thr Leu Cys Val Val Leu Ser Leu Thr His Ser Cys Pro Ser Pro Gln
 20 25 30
 Val Pro Lys Val His Tyr Met Ile Phe Met Pro Leu His Leu His Ser
 35 40 45
 Leu Ala Leu Thr Gln Leu Ile Ile Ile Tyr Lys
 50 55

<210> 215
 <211> 84
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 215
 Met Gly Cys Ile Pro Leu Ile Lys Ser Ile Ser Asp Trp Arg Val Ile
 1 5 10 15
 Ala Leu Ala Ala Leu Trp Phe Cys Leu Ile Gly Leu Ile Cys Gln Ala
 20 25 30

Leu Cys Ser Glu Asp Gly His Lys Arg Arg Ile Leu Thr Leu Gly Leu
 35 40 45

Gly Phe Leu Val Ile Pro Phe Leu Pro Ala Ser Asn Leu Phe Phe Arg
 50 55 60

Val Gly Phe Val Val Ala Xaa Cys Ser Ser Thr Ser Pro Ala Leu Gly
 65 70 75 80

Thr Val Cys Cys

<210> 216

<211> 81

<212> PRT

<213> Homo sapiens

<400> 216

Met Val Val Ala Gly Val Val Val Leu Ile Leu Ala Leu Val Leu Ala
 1 5 10 15

Trp Leu Ser Thr Tyr Val Ala Asp Ser Gly Ser Asn Gln Leu Leu Gly
 20 25 30

Ala Ile Val Ser Ala Gly Asp Thr Ser Val Leu His Leu Gly His Val
 35 40 45

Asp His Leu Val Ala Gly Gln Gly Asn Pro Glu Pro Thr Glu Leu Pro
 50 55 60

His Pro Ser Glu Asp Lys Gln Val Gln Ala Ala Val Gln Arg Pro
 65 70 75 80

Pro

<210> 217

<211> 90

<212> PRT

<213> Homo sapiens

<400> 217

Met Met Val Trp Asn Leu Phe Pro Cys Phe Pro Pro Leu Leu Leu Leu
 1 5 10 15

Gln Phe Ile Asp Cys Gln Gln Ser Ser Glu Ile Glu Gln Gly Phe Thr
 20 25 30

Arg Ser Leu Leu Gly His Pro Ile Phe Phe Cys Pro Asp Pro Cys Trp
 35 40 45

Gln Ser Cys Met Asn Cys Val Ile Leu Leu Ser Ala Phe Phe Phe Leu
 50 55 60

Phe Asp Lys Met Asp Ile Lys Asn Ser Cys Cys Ala Lys Val Ser Ser
 65 70 75 80

Leu Leu Gln Glu Glu Asn Gln Phe Phe Phe
85 90

<210> 218
<211> 335
<212> PRT
<213> Homo sapiens

<400> 218
Met Lys Lys Glu Leu Pro Val Asp Ser Cys Leu Pro Arg Ser Leu Glu
1 5 10 15

Leu His Pro Gln Lys Met Asp Pro Lys Arg Gln His Ile Gln Leu Leu
20 25 30

Ser Ser Leu Thr Glu Cys Leu Thr Val Asp Pro Leu Ser Ala Ser Val
35 40 45

Trp Arg Gln Leu Tyr Pro Lys His Leu Ser Gln Ser Ser Leu Leu Leu
50 55 60

Glu His Leu Leu Ser Ser Trp Glu Gln Ile Pro Lys Lys Val Gln Lys
65 70 75 80

Ser Leu Gln Glu Thr Ile Gln Ser Leu Lys Leu Thr Asn Gln Glu Leu
85 90 95

Leu Arg Lys Gly Ser Ser Asn Asn Gln Asp Val Val Thr Cys Asp Met
100 105 110

Ala Cys Lys Gly Leu Leu Gln Gln Val Gln Gly Pro Arg Leu Pro Trp
115 120 125

Thr Arg Leu Leu Leu Leu Leu Leu Val Phe Ala Val Gly Phe Leu Cys
130 135 140

His Asp Leu Arg Ser His Ser Ser Phe Gln Ala Ser Leu Thr Gly Arg
145 150 155 160

Leu Leu Arg Ser Ser Gly Phe Leu Pro Ala Ser Gln Gln Ala Cys Ala
165 170 175

Lys Leu Tyr Ser Tyr Ser Leu Gln Gly Tyr Ser Trp Leu Gly Glu Thr
180 185 190

Leu Pro Leu Trp Gly Ser His Leu Leu Thr Val Val Arg Pro Ser Leu
195 200 205

Gln Leu Ala Trp Ala His Thr Asn Ala Thr Val Ser Phe Leu Ser Ala
210 215 220

His Cys Ala Ser His Leu Ala Trp Phe Gly Asp Ser Leu Thr Ser Leu
225 230 235 240

Ser Gln Arg Leu Gln Ile Gln Leu Pro Asp Ser Val Asn Gln Leu Leu
245 250 255

Arg Tyr Leu Arg Glu Leu Pro Leu Leu Phe His Gln Asn Val Leu Leu
 260 265 270

Pro Leu Trp His Leu Leu Leu Glu Ala Leu Ala Trp Ala Gln Glu His
 275 280 285

Cys His Glu Ala Cys Arg Gly Glu Val Thr Trp Asp Cys Met Lys Thr
 290 295 300

Gln Leu Ser Glu Ala Val His Trp Thr Trp Leu Cys Leu Gln Asp Ile
 305 310 315 320

Thr Val Ala Phe Leu Asp Trp Ala Leu Ala Leu Ile Ser Gln Gln
 325 330 335

<210> 219

<211> 229

<212> PRT

<213> Homo sapiens

<400> 219

Met Asp Pro Asp Arg Ala Phe Ile Cys Gly Glu Ser Arg Gln Phe Ala
 1 5 10 15

Gln Cys Leu Ile Phe Gly Phe Leu Phe Leu Thr Ser Gly Met Leu Ile
 20 25 30

Ser Val Leu Gly Ile Trp Val Pro Gly Cys Gly Ser Asn Trp Ala Gln
 35 40 45

Glu Pro Leu Asn Glu Thr Asp Thr Gly Asp Ser Glu Pro Arg Met Cys
 50 55 60

Gly Phe Leu Ser Leu Gln Ile Met Gly Pro Leu Ile Val Leu Val Gly
 65 70 75 80

Leu Cys Phe Phe Val Val Ala His Val Lys Lys Arg Asn Thr Leu Asn
 85 90 95

Ala Gly Gln Asp Ala Ser Glu Arg Glu Glu Gly Gln Ile Gln Ile Met
 100 105 110

Glu Pro Val Gln Val Thr Val Gly Asp Ser Val Ile Ile Phe Pro Pro
 115 120 125

Pro Pro Pro Pro Tyr Phe Pro Glu Ser Ser Ala Ser Ala Val Ala Glu
 130 135 140

Ser Pro Gly Thr Asn Ser Leu Leu Pro Asn Glu Asn Pro Pro Ser Tyr
 145 150 155 160

Tyr Ser Ile Phe Asn Tyr Gly Thr Pro Thr Ser Glu Gly Ala Ala Ser
 165 170 175

Glu Arg Asp Cys Glu Ser Ile Tyr Thr Ile Ser Gly Thr Asn Ser Ser
 180 185 190

Ser Glu Ala Ser His Thr Pro His Leu Pro Ser Glu Leu Pro Pro Arg
 195 200 205

Tyr Glu Glu Lys Glu Asn Ala Ala Ala Thr Phe Leu Pro Leu Ser Ser
 210 215 220

Glu Pro Ser Pro Pro
 225

<210> 220
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 220
 Met Ser Ile Ser Leu Ser Ser Leu Ile Leu Leu Pro Ile Trp Ile Asn
 1 5 10 15

Met Ala Gln Ile Gln Gln Gly Gly Pro Asp Glu Lys Glu Lys Thr Thr
 20 25 30

Ala Leu Lys Asp Leu Leu Ser Arg Ile Asp Leu Asp Glu Leu Met Lys
 35 40 45

Lys Asp Glu Pro Pro Leu Asp Phe Leu Ile Pro Trp Lys Val
 50 55 60

<210> 221
 <211> 170
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (163)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 221
 Met Ala Ala Gly Pro Gly Thr His Leu Ser Leu Phe Trp Ala Arg Ile
 1 5 10 15

Ala Thr Leu Ala Val Trp Ala Ala Ala Ala Leu Val Thr Val Pro Thr
 20 25 30

Ala Val Phe Gly Val Glu Gly Glu Val Cys Gly Val Arg Leu Cys Leu
 35 40 45

Leu Arg Phe Pro Ser Arg Tyr Trp Leu Gly Ala Tyr Gln Leu Gln Arg
 50 55 60

Val Val Leu Ala Phe Met Val Pro Leu Gly Val Ile Thr Thr Ser Tyr
 65 70 75 80

Leu Leu Leu Leu Ala Phe Leu Gln Arg Arg Gln Arg Arg Arg Gln Asp
 85 90 95

Ser Arg Val Val Ala Arg Ser Val Arg Ile Leu Val Ala Ser Phe Phe
 100 105 110

Leu Cys Trp Phe Pro Asn His Val Val Thr Leu Trp Gly Val Leu Val
 115 120 125

Lys Phe Asp Leu Val Pro Trp Asn Ser Thr Phe Tyr Thr Ile Gln Thr
 130 135 140

Tyr Val Phe Pro Val Thr Thr Cys Leu Ala His Ser Asn Ser Cys Leu
 145 150 155 160

Asn Pro Xaa Ala Tyr Val Leu Ser Arg Ile
 165 170

<210> 222

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 222

Met Ala Gly Cys Leu Gly Ser Tyr Leu Leu Val Met Ile Leu Ile Leu
 1 5 10 15

Cys Xaa Ala His Phe Phe Ile Cys Gly Asn Glu Asp Asn Arg Val Leu
 20 25 30

Arg Tyr Asn Leu Xaa Thr Met Ser Val Thr
 35 40

<210> 223

<211> 56

<212> PRT

<213> Homo sapiens

<400> 223

Met Cys Ile Ser Gly Cys Leu Phe His Cys Ser Ile Cys Leu Phe Phe
 1 5 10 15

Met Leu Val Pro Tyr Cys Phe Asp Tyr Cys Leu Val Met Tyr Phe Glu
 20 25 30

Ile Lys Thr Cys Gly Tyr Leu Leu Cys Ser Pro Cys Gln Asp Tyr
 35 40 45

Ser Arg Ser Phe Val Ala Ser Ser
50 55

<210> 224
<211> 96
<212> PRT
<213> Homo sapiens

<400> 224
Met Tyr Arg Glu Arg Leu Arg Thr Leu Leu Val Ile Ala Val Val Met
1 5 10 15
Ser Leu Leu Asn Ala Leu Ser Thr Ser Gly Gly Ser Ile Ser Trp Asn
20 25 30
Asp Phe Val His Glu Met Leu Ala Lys Gly Glu Val Gln Arg Val Gln
35 40 45
Val Val Pro Glu Ser Asp Val Val Glu Val Tyr Leu His Pro Gly Ala
50 55 60
Val Val Phe Gly Arg Pro Arg Leu Ala Leu Met Tyr Arg Met Gln Leu
65 70 75 80
Gln Ile Leu Thr Ser Leu Lys Arg Ser Phe Glu Gln Leu Lys Met Ser
85 90 95

<210> 225
<211> 22
<212> PRT
<213> Homo sapiens

<400> 225
Trp Ala Gly Thr Gln Glu Pro Thr Gly Leu Pro Ser Thr Leu Ser Arg
1 5 10 15
Ser Glu Ser Trp Asp His
20

<210> 226
<211> 171
<212> PRT
<213> Homo sapiens

<400> 226
Glu Ile Ile His Asn Leu Pro Thr Ser Arg Met Ala Ala Arg Thr Lys
1 5 10 15
Lys Lys Asn Asp Ile Ile Asn Ile Lys Val Pro Ala Asp Cys Asn Thr
20 25 30
Arg Met Ser Tyr Tyr Tyr Lys Gly Ser Gly Lys Arg Gly Glu Met Glu

35 40 45
 Ser Trp Leu Val Met Ser Ser Trp Ser Ile Leu Asp Phe Glu Phe Leu
 50 55 60
 Glu Ala Arg Pro Gln Leu Phe Asn Leu Val Tyr Thr Glu His Ser Thr
 65 70 75 80
 Tyr Ser Gly Arg His Tyr Thr Arg Glu Arg Gly Gly Phe Met Val Phe
 85 90 95
 Lys Asn Ser Tyr Ser Gln Leu Leu Leu Lys Arg Lys Asp Ser Leu Cys
 100 105 110
 Ala Phe Ile Gln Pro Met Ala Leu Asn Ile Ile His Val Pro Met Ser
 115 120 125
 Ser Lys Cys Ile Phe Pro Ala Gln Ser Gly Pro Ser Thr Phe Arg Ser
 130 135 140
 Leu Trp Trp Cys Pro His Pro Ile Ser Lys Cys Gln Leu Gly Leu Tyr
 145 150 155 160
 Ser Ser Gln Ile Arg Asp Ile Pro Tyr Leu Ala
 165 170

<210> 227
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 227
 Glu Ile Ile His Asn Leu Pro Thr Ser Arg Met Ala Ala Arg Thr Lys
 1 5 10 15
 Lys Lys Asn Asp Ile Ile Asn Ile Lys Val Pro Ala Asp Cys Asn Thr
 20 25 30
 Arg Met Ser
 35

<210> 228
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 228
 Tyr Tyr Tyr Lys Gly Ser Gly Lys Arg Gly Glu Met Glu Ser Trp Leu
 1 5 10 15
 Val Met Ser Ser Trp Ser Ile Leu Asp Phe Glu Phe Leu Glu Ala Arg
 20 25 30
 Pro Gln Leu Phe
 35

<210> 229
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 229
 Asn Leu Val Tyr Thr Glu His Ser Thr Tyr Ser Gly Arg His Tyr Thr
 1 5 10 15
 Arg Glu Arg Gly Gly Phe Met Val Phe Lys Asn Ser Tyr Ser Gln Leu
 20 25 30
 Leu Leu Lys Arg
 35

<210> 230
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 230
 Lys Asp Ser Leu Cys Ala Phe Ile Gln Pro Met Ala Leu Asn Ile Ile
 1 5 10 15
 His Val Pro Met Ser Ser Lys Cys Ile Phe Pro Ala Gln Ser Gly Pro
 20 25 30
 Ser Thr Phe
 35

<210> 231
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 231
 Arg Ser Leu Trp Trp Cys Pro His Pro Ile Ser Lys Cys Gln Leu Gly
 1 5 10 15
 Leu Tyr Ser Ser Gln Ile Arg Asp Ile Pro Tyr Leu Ala
 20 25

<210> 232
 <211> 533
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (473)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 232
 Glu Ala Cys Gly Ala Ala Ala Met Ala Ala Leu Thr Ile Ala Thr Gly

1	5	10	15
Thr Gly Asn Trp Phe Ser Ala Leu Ala Leu Gly Val Thr Leu Leu Lys	20	25	30
Cys Leu Leu Ile Pro Thr Tyr His Ser Thr Asp Phe Glu Val His Arg	35	40	45
Asn Trp Leu Ala Ile Thr His Ser Leu Pro Ile Ser Gln Trp Tyr Tyr	50	55	60
Glu Ala Thr Ser Glu Trp Thr Leu Asp Tyr Pro Pro Phe Phe Ala Trp	65	70	75
Phe Glu Tyr Ile Leu Ser His Val Ala Lys Tyr Phe Asp Gln Glu Met	85	90	95
Leu Asn Val His Asn Leu Asn Tyr Ser Ser Ser Arg Thr Leu Leu Phe	100	105	110
Gln Arg Phe Ser Val Ile Phe Met Asp Val Leu Phe Val Tyr Ala Val	115	120	125
Arg Glu Cys Cys Lys Cys Ile Asp Gly Lys Lys Val Gly Lys Glu Leu	130	135	140
Thr Glu Lys Pro Lys Phe Ile Leu Ser Val Leu Leu Leu Trp Asn Phe	145	150	155
Gly Leu Leu Ile Val Asp His Ile His Phe Gln Tyr Asn Gly Phe Leu	165	170	175
Phe Gly Leu Met Leu Leu Ser Ile Ala Arg Leu Phe Gln Lys Arg His	180	185	190
Met Glu Gly Ala Phe Leu Phe Ala Val Leu Leu His Phe Lys His Ile	195	200	205
Tyr Leu Tyr Val Ala Pro Ala Tyr Gly Val Tyr Leu Leu Arg Ser Tyr	210	215	220
Cys Phe Thr Ala Asn Lys Pro Asp Gly Ser Ile Arg Trp Lys Ser Phe	225	230	235
Ser Phe Val Arg Val Ile Ser Leu Gly Leu Val Val Phe Leu Val Ser	245	250	255
Ala Leu Ser Leu Gly Pro Phe Leu Ala Leu Asn Gln Leu Pro Gln Val	260	265	270
Phe Ser Arg Leu Phe Pro Phe Lys Arg Gly Leu Cys His Ala Tyr Trp	275	280	285
Ala Pro Asn Phe Trp Ala Leu Tyr Asn Ala Leu Asp Lys Val Leu Ser	290	295	300
Val Ile Gly Leu Lys Leu Lys Phe Leu Asp Pro Asn Asn Ile Pro Lys	305	310	315
			320

Ala Ser Met Thr Ser Gly Leu Val Gln Gln Phe Gln His Thr Val Leu
325 - 330 335

Pro Ser Val Thr Pro Leu Ala Thr Leu Ile Cys Thr Leu Ile Ala Ile
340 345 350

Leu Pro Ser Ile Phe Cys Leu Trp Phe Lys Pro Gln Gly Pro Arg Gly
355 360 365

Phe Leu Arg Cys Leu Thr Leu Cys Ala Leu Ser Ser Phe Met Phe Gly
370 375 380

Trp His Val His Glu Lys Ala Ile Leu Leu Ala Ile Leu Pro Met Ser
385 390 395 400

Leu Leu Ser Val Gly Lys Ala Gly Asp Ala Ser Ile Phe Leu Ile Leu
405 410 415

Thr Thr Thr Gly His Tyr Ser Leu Phe Pro Leu Leu Phe Thr Ala Pro
420 425 430

Glu Leu Pro Ile Lys Ile Leu Leu Met Leu Leu Phe Thr Ile Tyr Ser
435 440 445

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Ile Ser Ser Leu Lys Thr Leu Phe Arg Lys Glu Lys Pro Leu Phe Asn
      450                      455                      460

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Trp Met Glu Thr Phe Tyr Leu Leu Xaa Leu Gly Pro Leu Glu Val Cys
 465 470 475 480

Cys Glu Phe Val Phe Pro Phe Thr Ser Trp Lys Val Lys Tyr Pro Phe
485 490 495

Ile Pro Leu Leu Leu Thr Ser Val Tyr Cys Ala Val Gly Ile Thr Tyr
500 505 510

Ala Trp Phe Lys Leu Tyr Val Ser Val Leu Ile Asp Ser Ala Ile Gly
515 520 525

Lys Thr Lys Lys Gln
530

<210> 233

<211> 460

<212> PRT

<213> Homo sapiens

<400> 233

Met Phe Thr Ile Lys Leu Leu Leu Phe Ile Val Pro Leu Val Ile Ser.
1 5 10 15

Ser Arg Ile Asp Gln Asp Asn Ser Ser Phe Asp Ser Leu Ser Pro Glu
20 25 30

Pro Lys Ser Arg Phe Ala Met Leu Asp Asp Val Lys Ile Leu Ala Asn
35 40 45

Gly Leu Leu Gln Leu Gly His Gly Leu Lys Asp Phe Val His Lys Thr
 50 55 60
 Lys Gly Gln Ile Asn Asp Ile Phe Gln Lys Leu Asn Ile Phe Asp Gln
 65 70 75 80
 Ser Phe Tyr Asp Leu Ser Leu Gln Thr Ser Glu Ile Lys Glu Glu Glu
 85 90 95
 Lys Glu Leu Arg Arg Thr Thr Tyr Lys Leu Gln Val Lys Asn Glu Glu
 100 105 110
 Val Lys Asn Met Ser Leu Glu Leu Asn Ser Lys Leu Glu Ser Leu Leu
 115 120 125
 Glu Glu Lys Ile Leu Leu Gln Gln Lys Val Lys Tyr Leu Glu Glu Gln
 130 135 140
 Leu Thr Asn Leu Ile Gln Asn Gln Pro Glu Thr Pro Glu His Pro Glu
 145 150 155 160
 Val Thr Ser Leu Lys Thr Phe Val Glu Lys Gln Asp Asn Ser Ile Lys
 165 170 175
 Asp Leu Leu Gln Thr Val Glu Asp Gln Tyr Lys Gln Leu Asn Gln Gln
 180 185 190
 His Ser Gln Ile Lys Glu Ile Glu Asn Gln Leu Arg Arg Thr Ser Ile
 195 200 205
 Gln Glu Pro Thr Glu Ile Ser Leu Ser Ser Lys Pro Arg Ala Pro Arg
 210 215 220
 Thr Thr Pro Phe Leu Gln Leu Asn Glu Ile Arg Asn Val Lys His Asp
 225 230 235 240
 Gly Ile Pro Ala Glu Cys Thr Thr Ile Tyr Asn Arg Gly Glu His Thr
 245 250 255
 Ser Gly Met Tyr Ala Ile Arg Pro Ser Asn Ser Gln Val Phe His Val
 260 265 270
 Tyr Cys Asp Val Ile Ser Gly Ser Pro Trp Thr Leu Ile Gln His Arg
 275 280 285
 Ile Asp Gly Ser Gln Asn Phe Asn Glu Thr Trp Glu Asn Tyr Lys Tyr
 290 295 300
 Gly Phe Gly Arg Leu Asp Gly Glu Phe Trp Leu Gly Leu Glu Lys Ile
 305 310 315 320
 Tyr Ser Ile Val Lys Gln Ser Asn Tyr Val Leu Arg Ile Glu Leu Glu
 325 330 335
 Asp Trp Lys Asp Asn Lys His Tyr Ile Glu Tyr Ser Phe Tyr Leu Gly
 340 345 350

Asn His Glu Thr Asn Tyr Thr Leu His Leu Val Ala Ile Thr Gly Asn
 355 360 365

Val Pro Asn Ala Ile Pro Glu Asn Lys Asp Leu Val Phe Ser Thr Trp
 370 375 380

Asp His Lys Ala Lys Gly His Phe Asn Cys Pro Glu Gly Tyr Ser Gly
 385 390 395 400

Gly Trp Trp Trp His Asp Glu Cys Gly Glu Asn Asn Leu Asn Gly Lys
 405 410 415

Tyr Asn Lys Pro Arg Ala Lys Ser Lys Pro Glu Arg Arg Arg Gly Leu
 420 425 430

Ser Trp Lys Ser Gln Asn Gly Arg Leu Tyr Ser Ile Lys Ser Thr Lys
 435 440 445

Met Leu Ile His Pro Thr Asp Ser Glu Ser Phe Glu
 450 455 460

<210> 234

<211> 37

<212> PRT

<213> Homo sapiens

<400> 234

Met Phe Thr Ile Lys Leu Leu Leu Phe Ile Val Pro Leu Val Ile Ser
 1 5 10 15

Ser Arg Ile Asp Gln Asp Asn Ser Ser Phe Asp Ser Leu Ser Pro Glu
 20 25 30

Pro Lys Ser Arg Phe
 35

<210> 235

<211> 34

<212> PRT

<213> Homo sapiens

<400> 235

Ala Met Leu Asp Asp Val Lys Ile Leu Ala Asn Gly Leu Leu Gln Leu
 1 5 10 15

Gly His Gly Leu Lys Asp Phe Val His Lys Thr Lys Gly Gln Ile Asn
 20 25 30

Asp Ile

<210> 236

<211> 35

<212> PRT

<213> Homo sapiens

<400> 236

Phe Gln Lys Leu Asn Ile Phe Asp Gln Ser Phe Tyr Asp Leu Ser Leu
 1 5 10 15

Gln Thr Ser Glu Ile Lys Glu Glu Glu Lys Glu Leu Arg Arg Thr Thr
 20 25 30

Tyr Lys Leu
 35

<210> 237

<211> 36

<212> PRT

<213> Homo sapiens

<400> 237

Gln Val Lys Asn Glu Glu Val Lys Asn Met Ser Leu Glu Leu Asn Ser
 1 5 10 15

Lys Leu Glu Ser Leu Leu Glu Glu Lys Ile Leu Leu Gln Gln Lys Val
 20 25 30

Lys Tyr Leu Glu
 35

<210> 238

<211> 36

<212> PRT

<213> Homo sapiens

<400> 238

Glu Gln Leu Thr Asn Leu Ile Gln Asn Gln Pro Glu Thr Pro Glu His
 1 5 10 15

Pro Glu Val Thr Ser Leu Lys Thr Phe Val Glu Lys Gln Asp Asn Ser
 20 25 30

Ile Lys Asp Leu
 35

<210> 239

<211> 35

<212> PRT

<213> Homo sapiens

<400> 239

Leu Gln Thr Val Glu Asp Gln Tyr Lys Gln Leu Asn Gln Gln His Ser
 1 5 10 15

Gln Ile Lys Glu Ile Glu Asn Gln Leu Arg Arg Thr Ser Ile Gln Glu
 20 25 30

Pro Thr Glu
 35

<210> 240
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 240
 Ile Ser Leu Ser Ser Lys Pro Arg Ala Pro Arg Thr Thr Pro Phe Leu
 1 5 10 15
 Gln Leu Asn Glu Ile Arg Asn Val Lys His Asp Gly Ile Pro Ala Glu
 20 25 30
 Cys Thr Thr
 35

<210> 241
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 241
 Ile Tyr Asn Arg Gly Glu His Thr Ser Gly Met Tyr Ala Ile Arg Pro
 1 5 10 15
 Ser Asn Ser Gln Val Phe His Val Tyr Cys Asp Val Ile Ser Gly Ser
 20 25 30
 Pro Trp Thr Leu
 35

<210> 242
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 242
 Ile Gln His Arg Ile Asp Gly Ser Gln Asn Phe Asn Glu Thr Trp Glu
 1 5 10 15
 Asn Tyr Lys Tyr Gly Phe Gly Arg Leu Asp Gly Glu Phe Trp Leu Gly
 20 25 30
 Leu Glu Lys Ile
 35

<210> 243
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 243
 Tyr Ser Ile Val Lys Gln Ser Asn Tyr Val Leu Arg Ile Glu Leu Glu
 1 5 10 15

Asp Trp Lys Asp Asn Lys His Tyr Ile Glu Tyr Ser Phe Tyr Leu Gly
 20 25 30

Asn His Glu
 35

<210> 244
 <211> 35.
 <212> PRT
 <213> Homo sapiens

<400> 244
 Thr Asn Tyr Thr Leu His Leu Val Ala Ile Thr Gly Asn Val Pro Asn
 1 5 10 15

Ala Ile Pro Glu Asn Lys Asp Leu Val Phe Ser Thr Trp Asp His Lys
 20 25 30

Ala Lys Gly
 35

<210> 245
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 245
 His Phe Asn Cys Pro Glu Gly Tyr Ser Gly Gly Trp Trp Trp His Asp
 1 5 10 15

Glu Cys Gly Glu Asn Asn Leu Asn Gly Lys Tyr Asn Lys Pro Arg Ala
 20 25 30

Lys Ser Lys Pro
 35

<210> 246
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 246
 Glu Arg Arg Arg Gly Leu Ser Trp Lys Ser Gln Asn Gly Arg Leu Tyr
 1 5 10 15

Ser Ile Lys Ser Thr Lys Met Leu Ile His Pro Thr Asp Ser Glu Ser
 20 25 30

Phe Glu

<210> 247
 <211> 36

<212> PRT
 <213> Homo sapiens

<400> 247
 Leu Pro Pro Arg Gly Pro Ala Thr Phe Gly Ser Pro Gly Cys Pro Pro
 1 5 10 15
 Ala Asn Ser Pro Pro Ser Ala Pro Ala Thr Pro Glu Pro Ala Arg Ala
 20 25 30
 Pro Glu Arg Val
 35

<210> 248
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 248
 Gly Thr Arg Ala Gly Val Ser Lys Tyr Thr Gly Gly Arg Gly Val Thr
 1 5 10 15
 Trp Ala Pro Ser Ser Ala Ala Val Pro Arg Ile Ser Ser Ala Thr Met
 20 25 30
 Arg Met Gly Leu Thr Ser Phe Ser Thr Thr Gly Ala
 35 40

<210> 249
 <211> 306
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (293)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 249
 Trp Gln Ser Gly His Arg Leu Trp Gln Leu Glu Trp Pro Pro Pro Pro
 1 5 10 15
 Leu Ser Ala Asp Glu His Pro Trp Glu Gly Pro Leu Pro Gly Thr Ser
 20 25 30
 Pro Ser Pro Lys Phe Ser Met Pro Ser Pro Val Pro His Gly His His
 35 40 45
 Arg Pro Thr Leu Thr Met Thr Arg Ser Trp Arg Ile Phe Phe Asn Asn
 50 55 60
 Ile Ala Tyr Arg Ser Ser Ser Ala Asn Arg Leu Phe Arg Val Ile Arg
 65 70 75 80
 Arg Glu His Gly Asp Pro Leu Ile Glu Glu Leu Asn Pro Gly Asp Ala
 85 90 95

Leu Glu Pro Glu Gly Arg Gly Thr Gly Gly Val Val Thr Asp Phe Asp
 100 105 110

Gly Asp Gly Met Leu Asp Leu Ile Leu Ser His Gly Glu Ser Met Ala
 115 120 125

Gln Pro Leu Ser Val Phe Arg Gly Asn Gln Gly Phe Asn Asn Asn Trp
 130 135 140

Leu Arg Val Val Pro Arg Thr Arg Phe Gly Ala Phe Ala Arg Gly Ala
 145 150 155 160

Lys Val Val Leu Tyr Thr Lys Lys Ser Gly Ala His Leu Arg Ile Ile
 165 170 175

Asp Gly Gly Ser Gly Tyr Leu Cys Glu Met Glu Pro Val Ala His Phe
 180 185 190

Gly Leu Gly Lys Asp Glu Ala Ser Ser Val Glu Val Thr Trp Pro Asp
 195 200 205

Gly Lys Met Val Ser Arg Asn Val Ala Ser Gly Glu Met Asn Ser Val
 210 215 220

Leu Glu Ile Leu Tyr Pro Arg Asp Glu Asp Thr Leu Gln Asp Pro Ala
 225 230 235 240

Pro Leu Glu Cys Gly Gln Gly Phe Ser Gln Gln Glu Asn Gly His Cys
 245 250 255

Met Asp Thr Asn Glu Cys Ile Gln Phe Pro Phe Val Cys Pro Arg Asp
 260 265 270

Lys Pro Val Cys Val Asn Thr Tyr Gly Ser Tyr Arg Cys Arg Thr Asn
 275 280 285

Lys Lys Cys Ser Xaa Gly Leu Arg Val Pro Thr Arg Met Ala His Thr
 290 295 300

Gly Leu
 305

<210> 250

<211> 36

<212> PRT

<213> Homo sapiens

<400> 250

Trp Gln Ser Gly His Arg Leu Trp Gln Leu Glu Trp Pro Pro Pro Pro
 1 5 10 15

Leu Ser Ala Asp Glu His Pro Trp Glu Gly Pro Leu Pro Gly Thr Ser
 20 25 30

Pro Ser Pro Lys
 35

<210> 251
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 251
 Phe Ser Met Pro Ser Pro Val Pro His Gly His His Arg Pro Thr Leu
 1 5 10 15
 Thr Met Thr Arg Ser Trp Arg Ile Phe Phe Asn Asn Ile Ala Tyr Arg
 20 25 30
 Ser Ser Ser
 35

<210> 252
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 252
 Ala Asn Arg Leu Phe Arg Val Ile Arg Arg Glu His Gly Asp Pro Leu
 1 5 10 15
 Ile Glu Glu Leu Asn Pro Gly Asp Ala Leu Glu Pro Glu Gly Arg Gly
 20 25 30
 Thr Gly Gly Val Val
 35

<210> 253
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 253
 Thr Asp Phe Asp Gly Asp Gly Met Leu Asp Leu Ile Leu Ser His Gly
 1 5 10 15
 Glu Ser Met Ala Gln Pro Leu Ser Val Phe Arg Gly Asn Gln Gly Phe
 20 25 30
 Asn Asn

<210> 254
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 254
 Asn Trp Leu Arg Val Val Pro Arg Thr Arg Phe Gly Ala Phe Ala Arg
 1 5 10 15

Gly Ala Lys Val Val Leu Tyr Thr Lys Lys Ser Gly Ala His Leu Arg
 20 25 30

Ile Ile Asp
 35

<210> 255
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 255
 Gly Gly Ser Gly Tyr Leu Cys Glu Met Glu Pro Val Ala His Phe Gly
 1 5 10 15

Leu Gly Lys Asp Glu Ala Ser Ser Val Glu Val Thr Trp Pro Asp Gly
 20 25 30

Lys Met Val Ser
 35

<210> 256
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 256
 Arg Asn Val Ala Ser Gly Glu Met Asn Ser Val Leu Glu Ile Leu Tyr
 1 5 10 15

Pro Arg Asp Glu Asp Thr Leu Gln Asp Pro Ala Pro Leu Glu Cys Gly
 20 25 30

Gln Gly Phe
 35

<210> 257
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 257
 Ser Gln Gln Glu Asn Gly His Cys Met Asp Thr Asn Glu Cys Ile Gln
 1 5 10 15

Phe Pro Phe Val Cys Pro Arg Asp Lys Pro Val Cys Val Asn Thr Tyr
 20 25 30

Gly Ser Tyr Arg
 35

<210> 258
 <211> 22

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 258
 Cys Arg Thr Asn Lys Lys Cys Ser Xaa Gly Leu Arg Val Pro Thr Arg
 1 5 10 15
 Met Ala His Thr Gly Leu
 20

<210> 259
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 259
 Gln Ser Pro Ile Asp Ile Gln Thr Asp
 1 5

<210> 260
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 260
 Leu His Asn Asn Gly His Thr Val Gln Leu Ser Leu Pro Ser Thr Leu
 1 5 10 15
 Tyr Leu

<210> 261
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 261
 Tyr Val Ala Ala Gln Leu His Leu His Trp Gly
 1 5 10

<210> 262
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 262
 Ala Glu Leu His Ile Val His Tyr Asp Ser Asp
 1 5 10

<210> 263
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 263
 Gly Gln His Trp Thr Tyr Glu Gly Pro His Gly Gln Asp His Trp Pro
 1 5 10 15

<210> 264
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 264
 Gln Ser Pro Ile Asp Ile Gln Thr Asp Ser Val Thr Phe Asp
 1 5 10

<210> 265
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 265
 Leu His Asn Asn Gly His Thr Val Gln Leu Ser Leu Pro Ser Thr
 1 5 10 15

<210> 266
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 266
 Lys Tyr Val Ala Ala Gln Leu His Leu His Trp Gly
 1 5 10

<210> 267
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 267
 Ala Glu Leu His Ile Val His Tyr Asp Ser Asp Ser Tyr
 1 5 10

<210> 268
 <211> 1667
 <212> DNA
 <213> Homo sapiens

<400> 268

GGCCGCGCCG CCGCTGCCGC CGCCGCGCGC GATTCTGCTT CTCAGAAGAT GCACTATTAT	60
AGATACTCTA ACGCCAAGGT CAGCTGCTGG TACAAGTACC TCCTTTTCAG CTACAACATC	120
ATCTTCTGAT TGGCTGGAGT TGTCTTCCTT GGAGTCGGGC TGTGGGCATG GAGCGAAAAG	180
GGTGTGCTGT CCGACCTCAC CAAAGTGACC CGGATGCATG GAATCGACCC TGTGGTGCTG	240
GTCCTGATGG TGGCGTGCTT GATGTTTACC CTGGGGTTCG CCGGCTGCGT GGGGGCTCTG	300
CGGGAGAATA TCTGCTTGCT CAACTTTTTT TGTGGCACCA TCGTGCTCAT CTTCTTCCTG	360
GAGCTGGCTG TGGCCGTGCT GGCCTTCCTG TTCCAGGACT GGGTGAGGGA CCGGTTCCGG	420
GAGTTCTTCG AGAGCAACAT CAAGTCCTAC CGGGACGATA TCGATCTGCA AAACCTCATC	480
GACTCCCTTC AGAAAGCTAA CCAGTGCTGT GGCGCATATG GCCCTGAAAG ACTGGGACCT	540
CAGACGTCTA CTTCAATTGC AGCGGTGCCA GCTACAGCCG AGAGAATGCG GGGTCCCCCT	600
CTCCTGCTGC GTGCCAGATC CTGCGCAAAA AGTTGTGAAC ACACAGTGTG GATATGATGT	660
CAGGATTCAG CTGAAGAGCA AGTGGGATGA GTCCATCTTC ACGAAAGGCT GCATCCAGGC	720
GCTGGAAAGC TGGCTCCCGC GGAACATTTA CATTGTGGCT GGCGTCTTCA TCGCCATCTC	780
GCTGTTGCAG ATATTTGGCA TCTTCCTGGC AAGGACGCTG ATCTCAGACA TCGAGGCAGT	840
GAAGGCCGGC CATCACTTCT GAGGAGCAGA GTTGAGGGAG CCGAGCTGAG CCACGCTGGG	900
AGGCCAGAGC CTTTCTCTGC CATCAGCCCT ACGTCCAGAG GGAGAGGAGC CGACACCCCC	960
AGAGCCAGTG CCCCATCTTA AGCATCAGCG TGACGTGACC TCTCTGTTTC TGCTTGCTGG	1020
TGCTGAAGAC CAAGGGTCCC CCTTGTTACC TGCCCAAAC TGTGACTGCA TCCCTCTGGA	1080
GTCTACCCAG AGACAGAGAA TGTGTCTTTA TGTGGGAGTG GTGACTCTGA AAGACAGAGA	1140
GGGCTCCTGT GGCTGCCAGG AGGGCTTGAC TCAGACCCCC TGCAGCTCAA GCATGTCTGC	1200
AGGACACCTG GTCCCCCTCT CCCAGTGGCA TCCCAAACAT CTGCTTTGGG TCCATCCCAC	1260
ATCTGTGGGT GGGCCCGTGG GTAAGAAGGG AACCCACAG GCGTGGAACA GGGCATCCTC	1320
TCTCCCATCC AAGCAAAGCC AGCATGGGGG CCTGCCCGTA ACGGGAGGCG GACGTGGCCC	1380
CGCTGGGCCT CTGAGTGCCA GCGCAGTCTG CTGGGACATG CACATATCAG GGGTTGTTTG	1440
CAGGATCCTC AGCCATGTTT AAGTGAAGTA AGCCTGAGCC AGTGCGTGGA CTGGTGCCAC	1500
GGGAGTGCCT TGTCCACTGT CCCCCTGTGT CCACCAGCTA TTCTCCTGGC GCCGGAACCTG	1560
CCTCTGGTCT TGATAGCATT AAGCCCTGAT TGGCCGGTGG CGCGGTGGGC ATGGTTCTTC	1620
ACTGAGAGCC GGCTCTCCTT TTCTTAAAGT GTGTAAATAG TTTATTT	1667

<210> 269
 <211> 270
 <212> PRT
 <213> Homo sapiens

<400> 269

Met His Tyr Tyr Arg Tyr Ser Asn Ala Lys Val Ser Cys Trp Tyr Lys
 1 5 10 15
 Tyr Leu Leu Phe Ser Tyr Asn Ile Ile Phe Trp Leu Ala Gly Val Val
 20 25 30
 Phe Leu Gly Val Gly Leu Trp Ala Trp Ser Glu Lys Gly Val Leu Ser
 35 40 45
 Asp Leu Thr Lys Val Thr Arg Met His Gly Ile Asp Pro Val Val Leu
 50 55 60
 Val Leu Met Val Gly Val Val Met Phe Thr Leu Gly Phe Ala Gly Cys
 65 70 75 80
 Val Gly Ala Leu Arg Glu Asn Ile Cys Leu Leu Asn Phe Phe Cys Gly
 85 90 95
 Thr Ile Val Leu Ile Phe Phe Leu Glu Leu Ala Val Ala Val Leu Ala
 100 105 110
 Phe Leu Phe Gln Asp Trp Val Arg Asp Arg Phe Arg Glu Phe Phe Glu
 115 120 125
 Ser Asn Ile Lys Ser Tyr Arg Asp Asp Ile Asp Leu Gln Asn Leu Ile
 130 135 140
 Asp Ser Leu Gln Lys Ala Asn Gln Cys Cys Gly Ala Tyr Gly Pro Glu
 145 150 155 160
 Asp Trp Asp Leu Asn Val Tyr Phe Asn Cys Ser Gly Ala Ser Tyr Ser
 165 170 175
 Arg Glu Lys Cys Gly Val Pro Phe Ser Cys Cys Val Pro Asp Pro Ala
 180 185 190
 Gln Lys Val Val Asn Thr Gln Cys Gly Tyr Asp Val Arg Ile Gln Leu
 195 200 205
 Lys Ser Lys Trp Asp Glu Ser Ile Phe Thr Lys Gly Cys Ile Gln Ala
 210 215 220
 Leu Glu Ser Trp Leu Pro Arg Asn Ile Tyr Ile Val Ala Gly Val Phe
 225 230 235 240
 Ile Ala Ile Ser Leu Leu Gln Ile Phe Gly Ile Phe Leu Ala Arg Thr
 245 250 255
 Leu Ile Ser Asp Ile Glu Ala Val Lys Ala Gly His His Phe
 260 265 270

<210> 270
 <211> 277
 <212> PRT
 <213> Homo sapiens

<400> 270

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Ser Gly Asn Leu Gly Ser Ala Asp Gly Trp Ala Tyr Ile Asp Val Glu
  1           5           10           15

Val Arg Arg Pro Trp Ala Phe Val Gly Pro Gly Cys Ser Arg Ser Ser
          20           25           30

Gly Asn Gly Ser Thr Ala Tyr Gly Leu Val Gly Ser Pro Arg Trp Leu
  35           40           45

Ser Pro Phe His Thr Gly Gly Ala Val Ser Leu Pro Arg Arg Pro Arg
  50           55           60

Gly Pro Gly Pro Val Leu Gly Val Ala Arg Pro Cys Leu Arg Cys Val
  65           70           75           80

Leu Arg Pro Glu His Tyr Glu Pro Gly Ser His Tyr Ser Gly Phe Ala
          85           90           95

Gly Arg Asp Ala Ser Arg Ala Phe Val Thr Gly Asp Cys Ser Glu Ala
          100          105          110

Gly Leu Val Asp Asp Val Ser Asp Leu Ser Ala Ala Glu Met Leu Thr
          115          120          125

Leu His Asn Trp Leu Ser Phe Tyr Glu Lys Asn Tyr Val Cys Val Gly
          130          135          140

Arg Val Thr Gly Arg Phe Tyr Gly Glu Asp Gly Leu Pro Thr Pro Ala
          145          150          155          160

Leu Thr Gln Val Glu Ala Ala Ile Thr Arg Gly Leu Glu Ala Asn Lys
          165          170          175

Leu Gln Leu Gln Glu Lys Gln Thr Phe Pro Pro Cys Asn Ala Glu Trp
          180          185          190

Ser Ser Ala Arg Gly Ser Arg Leu Trp Cys Ser Gln Lys Ser Gly Gly
          195          200          205

Val Ser Arg Asp Trp Ile Gly Val Pro Arg Lys Leu Tyr Lys Pro Gly
          210          215          220

Ala Lys Glu Pro Arg Cys Val Cys Val Arg Thr Thr Gly Pro Pro Ser
          225          230          235          240

Gly Gln Met Pro Asp Asn Pro Pro His Arg Asn Arg Gly Asp Leu Asp
          245          250          255

His Pro Asn Leu Ala Glu Tyr Thr Gly Cys Pro Pro Leu Ala Ile Thr
          260          265          270

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Cys Ser Phe Pro Leu
275

<210> 271
<211> 36
<212> PRT
<213> Homo sapiens

<400> 271
Ser Gly Asn Leu Gly Ser Ala Asp Gly Trp Ala Tyr Ile Asp Val Glu
1 5 10 15

Val Arg Arg Pro Trp Ala Phe Val Gly Pro Gly Cys Ser Arg Ser Ser
20 25 30

Gly Asn Gly Ser
35

<210> 272
<211> 36
<212> PRT
<213> Homo sapiens

<400> 272
Thr Ala Tyr Gly Leu Val Gly Ser Pro Arg Trp Leu Ser Pro Phe His
1 5 10 15

Thr Gly Gly Ala Val Ser Leu Pro Arg Arg Pro Arg Gly Pro Gly Pro
20 25 30

Val Leu Gly Val
35

<210> 273
<211> 36
<212> PRT
<213> Homo sapiens

<400> 273
Ala Arg Pro Cys Leu Arg Cys Val Leu Arg Pro Glu His Tyr Glu Pro
1 5 10 15

Gly Ser His Tyr Ser Gly Phe Ala Gly Arg Asp Ala Ser Arg Ala Phe
20 25 30

Val Thr Gly Asp
35

<210> 274
<211> 36
<212> PRT
<213> Homo sapiens

<400> 274

Cys Ser Glu Ala Gly Leu Val Asp Asp Val Ser Asp Leu Ser Ala Ala
 1 5 10 15

Glu Met Leu Thr Leu His Asn Trp Leu Ser Phe Tyr Glu Lys Asn Tyr
 20 25 30

Val Cys Val Gly
 35

<210> 275

<211> 36

<212> PRT

<213> Homo sapiens

<400> 275

Arg Val Thr Gly Arg Phe Tyr Gly Glu Asp Gly Leu Pro Thr Pro Ala
 1 5 10 15

Leu Thr Gln Val Glu Ala Ala Ile Thr Arg Gly Leu Glu Ala Asn Lys
 20 25 30

Leu Gln Leu Gln
 35

<210> 276

<211> 36

<212> PRT

<213> Homo sapiens

<400> 276

Glu Lys Gln Thr Phe Pro Pro Cys Asn Ala Glu Trp Ser Ser Ala Arg
 1 5 10 15

Gly Ser Arg Leu Trp Cys Ser Gln Lys Ser Gly Gly Val Ser Arg Asp
 20 25 30

Trp Ile Gly Val
 35

<210> 277

<211> 29

<212> PRT

<213> Homo sapiens

<400> 277

Pro Arg Lys Leu Tyr Lys Pro Gly Ala Lys Glu Pro Arg Cys Val Cys
 1 5 10 15

Val Arg Thr Thr Gly Pro Pro Ser Gly Gln Met Pro Asp
 20 25

<210> 278

<211> 32

<212> PRT
 <213> Homo sapiens

<400> 278
 Asn Pro Pro His Arg Asn Arg Gly Asp Leu Asp His Pro Asn Leu Ala
 1 5 10 15
 Glu Tyr Thr Gly Cys Pro Pro Leu Ala Ile Thr Cys Ser Phe Pro Leu
 20 25 30

<210> 279
 <211> 171
 <212> PRT
 <213> Homo sapiens

<400> 279
 Ser Gln Leu Leu Pro Gly Ser Val Pro Gly Trp Ala Ala His Pro Leu
 1 5 10 15
 Arg Arg Thr Val Leu Ser Pro Ser Gln His Thr His Asn Ser Ser His
 20 25 30
 Arg Met Lys Ala Asn Cys Glu Val Ser Ala Ser Gln Arg Leu Thr Gly
 35 40 45
 Arg Ile Arg His Pro Arg Gly Leu Leu Gln Asn Ser Pro Arg Ser Arg
 50 55 60
 Lys Leu Trp Met Arg Leu Gly Leu Arg Ser Arg Tyr Ser Gly Thr Gln
 65 70 75 80
 Ala Arg Ser Ala Pro Ala Gly Gly His Ile Val Asp Thr Ala Glu Gln
 85 90 95
 Arg Gln Val Gln Ala Arg Val Pro Trp Ala Ala Ala Val Ala Arg Gln
 100 105 110
 Leu Leu Arg Tyr Glu Lys Ala Lys Ala Ser Ala Gly Thr Pro Pro Ala
 115 120 125
 His Lys Pro Cys Cys His Tyr Arg Cys Cys Gly Tyr Ser Gln Ala Gln
 130 135 140
 Gln Lys Pro Thr Ala Ser Ala Pro Gln His Leu Tyr Arg Pro Thr Arg
 145 150 155 160
 Pro His Phe Arg Gly Cys Arg Ser Ile Ser Val
 165 170

<210> 280
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 280

Leu Leu Leu Cys Pro Trp Trp Leu Cys Phe Asp Trp Ser
 1 5 10

<210> 281

<211> 270

<212> PRT

<213> Homo sapiens

<400> 281

Met Gly Cys Ile Pro Leu Ile Lys Ser Ile Ser Asp Trp Arg Val Ile
 1 5 10 15

Ala Leu Ala Ala Leu Trp Phe Cys Leu Ile Gly Leu Ile Cys Gln Ala
 20 25 30

Leu Cys Ser Glu Asp Gly His Lys Arg Arg Ile Leu Thr Leu Gly Leu
 35 40 45

Gly Phe Leu Val Ile Pro Phe Leu Pro Ala Ser Asn Leu Phe Phe Arg
 50 55 60

Val Gly Phe Val Val Ala Glu Cys Val Leu Tyr Leu Pro Ser Ile Gly
 65 70 75 80

Tyr Cys Val Leu Leu Thr Phe Gly Phe Gly Ala Leu Ser Lys His Thr
 85 90 95

Lys Lys Lys Lys Leu Ile Ala Ala Val Val Leu Gly Ile Leu Phe Ile
 100 105 110

Asn Thr Leu Arg Cys Val Leu Arg Thr Ala Lys Trp Arg Ser Glu Glu
 115 120 125

Gln Leu Phe Arg Ser Ala Leu Ser Val Cys Pro Leu Asn Ala Lys Val
 130 135 140

His Tyr Asn Ile Gly Lys Asn Leu Ala Asp Lys Gly Asn Gln Thr Ala
 145 150 155 160

Ala Ile Arg Tyr Tyr Arg Glu Ala Val Arg Leu Asn Pro Lys Tyr Val
 165 170 175

His Ala Met Asn Asn Leu Gly Asn Ile Leu Lys Glu Arg Asn Glu Leu
 180 185 190

Gln Glu Ala Glu Glu Leu Leu Ser Leu Ala Val Gln Ile Gln Pro Asp
 195 200 205

Phe Ala Ala Ala Trp Met Asn Leu Gly Ile Val Gln Asn Ser Leu Lys
 210 215 220

Arg Phe Glu Thr Ala Glu Gln Asn Tyr Arg Thr Ala Ile Lys His Arg
 225 230 235 240

Arg Lys Tyr Pro Asp Cys Tyr Tyr Asn Leu Gly Arg Leu Val Arg Thr

164

245

250

255

Gly Cys Pro Val Pro Val Glu Gly Lys Met Gly Tyr Phe Ser
260 265 270

<210> 282

<211> 38

<212> PRT

<213> Homo sapiens

<400> 282

Met Gly Cys Ile Pro Leu Ile Lys Ser Ile Ser Asp Trp Arg Val Ile
1 5 10 15

Ala Leu Ala Ala Leu Trp Phe Cys Leu Ile Gly Leu Ile Cys Gln Ala
20 25 30

Leu Cys Ser Glu Asp Gly
35

<210> 283

<211> 38

<212> PRT

<213> Homo sapiens

<400> 283

His Lys Arg Arg Ile Leu Thr Leu Gly Leu Gly Phe Leu Val Ile Pro
1 5 10 15

Phe Leu Pro Ala Ser Asn Leu Phe Phe Arg Val Gly Phe Val Val Ala
20 25 30

Glu Cys Val Leu Tyr Leu
35

<210> 284

<211> 38

<212> PRT

<213> Homo sapiens

<400> 284

Pro Ser Ile Gly Tyr Cys Val Leu Leu Thr Phe Gly Phe Gly Ala Leu
1 5 10 15

Ser Lys His Thr Lys Lys Lys Lys Leu Ile Ala Ala Val Val Leu Gly
20 25 30

Ile Leu Phe Ile Asn Thr
35

<210> 285

<211> 38

<212> PRT

<213> Homo sapiens

<400> 285

Leu Arg Cys Val Leu Arg Thr Ala Lys Trp Arg Ser Glu Glu Gln Leu
 1 5 10 15

Phe Arg Ser Ala Leu Ser Val Cys Pro Leu Asn Ala Lys Val His Tyr
 20 25 30

Asn Ile Gly Lys Asn Leu
 35

<210> 286

<211> 38

<212> PRT

<213> Homo sapiens

<400> 286

Ala Asp Lys Gly Asn Gln Thr Ala Ala Ile Arg Tyr Tyr Arg Glu Ala
 1 5 10 15

Val Arg Leu Asn Pro Lys Tyr Val His Ala Met Asn Asn Leu Gly Asn
 20 25 30

Ile Leu Lys Glu Arg Asn
 35

<210> 287

<211> 38

<212> PRT

<213> Homo sapiens

<400> 287

Glu Leu Gln Glu Ala Glu Glu Leu Leu Ser Leu Ala Val Gln Ile Gln
 1 5 10 15

Pro Asp Phe Ala Ala Ala Trp Met Asn Leu Gly Ile Val Gln Asn Ser
 20 25 30

Leu Lys Arg Phe Glu Thr
 35

<210> 288

<211> 42

<212> PRT

<213> Homo sapiens

<400> 288

Ala Glu Gln Asn Tyr Arg Thr Ala Ile Lys His Arg Arg Lys Tyr Pro
 1 5 10 15

Asp Cys Tyr Tyr Asn Leu Gly Arg Leu Val Arg Thr Gly Cys Pro Val
 20 25 30

Pro Val Glu Gly Lys Met Gly Tyr Phe Ser
 35 40

<210> 289
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 289
 Leu Ile Lys Ser Ile Ser Asp Trp Arg Val Ile Ala Leu Ala Ala Leu
 1 5 10 15

<210> 290
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 290
 Arg Asp Asn Asp Tyr Leu Leu His Gly His Arg Pro Pro Met Phe
 1 5 10 15

<210> 291
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 291
 Ser Phe Arg Ala Cys Phe Lys Ser Ile Phe Arg Ile His Thr Glu Thr
 1 5 10 15

Gly Asn Ile Trp Thr His Leu Leu
 20

<210> 292
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 292
 Gly Phe Val Leu Phe Leu Phe Leu Gly Ile Leu Thr Met Leu Arg Pro
 1 5 10 15

Asn Met Tyr Phe Met Ala Pro Leu Gln Glu Lys Val Val
 20 25

<210> 293
 <211> 457
 <212> PRT
 <213> Homo sapiens

<400> 293
 Thr Gly Pro Glu Phe Pro Gly Ser Asn Ser Thr Val Ala Arg Arg Ile

1	5	10	15
Lys	Asp	Leu	Ala
20			
	Ala	Asp	Ile
	Glu	Glu	Glu
	25		
	Leu	Val	Cys
	Arg	Leu	Lys
	30		
Ile	Cys	Asp	Gly
35			
	Phe	Ser	Leu
	Gln	Leu	Asp
	40		
	Glu	Ser	Ala
	45		
Gly	Leu	Ala	Val
50			
	Leu	Val	Phe
	55		
	Val	Arg	Tyr
	Arg	Phe	Asn
	60		
Ile	Glu	Glu	Asp
65			
	Leu	Leu	Leu
	70		
	Cys	Glu	Ser
	Leu	Gln	Ser
	75		
	Asn	Ala	Thr
	80		
Gly	Glu	Glu	Ile
	Phe	Asn	Cys
	85		
	Ile	Asn	Ser
	90		
	Phe	Met	Gln
	Lys	His	Glu
	95		
Ile	Glu	Trp	Glu
	Lys	Cys	Val
	Asp	Val	Cys
	100		
	Ser	Asp	Ala
	105		
	Ser	Arg	Ala
	110		
Val	Asp	Gly	Lys
	Ile	Ala	Glu
	115		
	Ala	Val	Thr
	120		
	Leu	Ile	Lys
	125		
	Tyr	Val	Ala
Pro	Glu	Ser	Thr
	Ser	Ser	His
	130		
	Cys	Leu	Leu
	135		
	Tyr	Arg	His
	140		
	Ala	Leu	Ala
Val	Lys	Ile	Met
	Pro	Thr	Ser
	145		
	Leu	Lys	Asn
	150		
	Val	Leu	Asp
	155		
	Gln	Ala	Val
	160		
Gln	Ile	Ile	Asn
	Tyr	Ile	Lys
	165		
	Ala	Arg	Pro
	170		
	Gln	Ser	Arg
	175		
	Leu	Leu	
Lys	Ile	Leu	Cys
	Glu	Glu	Met
	180		
	Gly	Ala	Gln
	185		
	His	Thr	Ala
	190		
	Leu	Leu	Leu
Asn	Thr	Glu	Val
	Arg	Trp	Leu
	195		
	Ser	Arg	Gly
	200		
	Lys	Val	Leu
	205		
	Val	Arg	Leu
Phe	Glu	Leu	Arg
	Arg	Glu	Leu
	210		
	Leu	Val	Phe
	215		
	Met	Asp	Ser
	220		
	Ala	Phe	Arg
Leu	Ser	Asp	Cys
	Leu	Thr	Asn
	225		
	Ser	Ser	Trp
	230		
	Leu	Leu	Arg
	235		
	Leu	Ala	Tyr
	240		
Leu	Ala	Asp	Ile
	Phe	Thr	Lys
	245		
	Leu	Asn	Glu
	250		
	Val	Asn	Leu
	255		
	Ser	Met	Gln
Gly	Lys	Asn	Val
	Thr	Val	Phe
	260		
	Thr	Val	Phe
	265		
	Asp	Lys	Met
	270		
	Ser	Ser	Leu
Leu	Arg	Lys	Leu
	Glu	Phe	Trp
	275		
	Ala	Ser	Ser
	280		
	Val	Glu	Glu
	285		
	Gln	His	Leu
Asp	Cys	Phe	Pro
	Thr	Leu	Ser
	290		
	Asp	Phe	Leu
	295		
	Thr	Glu	Ile
	300		
	Asn	Ser	Thr
Val	Asp	Lys	Asp
	Ile	Cys	Ser
	305		
	Ala	Ile	Val
	310		
	Gln	His	Leu
	315		
	Arg	Gly	Leu
	320		

Arg Ala Thr Leu Leu Lys Tyr Phe Pro Val Thr Asn Asp Asn Asn Ala
 325 330 335

Trp Val Arg Asn Pro Phe Thr Val Thr Val Lys Pro Ala Ser Leu Val
 340 345 350

Ala Arg Asp Tyr Glu Ser Leu Ile Asp Leu Thr Ser Asp Ser Gln Val
 355 360 365

Lys Gln Asn Phe Ser Glu Leu Ser Leu Asn Asp Phe Trp Ser Ser Leu
 370 375 380

Ile Gln Glu Tyr Pro Ser Ile Ala Arg Arg Ala Val Arg Val Leu Leu
 385 390 395 400

Pro Phe Ala Thr Met His Leu Cys Glu Thr Gly Phe Ser Tyr Tyr Ala
 405 410 415

Ala Thr Lys Thr Lys Tyr Arg Lys Arg Leu Asp Ala Ala Pro His Met
 420 425 430

Arg Ile Arg Leu Ser Asn Ile Thr Pro Asn Ile Lys Arg Ile Cys Asp
 435 440 445

Lys Lys Thr Gln Lys His Cys Ser His
 450 455

<210> 294

<211> 31

<212> PRT

<213> Homo sapiens

<400> 294

Asp Ile Glu Glu Glu Leu Val Cys Arg Leu Lys Ile Cys Asp Gly Phe
 1 5 10 15

Ser Leu Gln Leu Asp Glu Ser Ala Asp Val Ser Gly Leu Ala Val
 20 25 30

<210> 295

<211> 36

<212> PRT

<213> Homo sapiens

<400> 295

Asn Ser Phe Met Gln Lys His Glu Ile Glu Trp Glu Lys Cys Val Asp
 1 5 10 15

Val Cys Ser Asp Ala Ser Arg Ala Val Asp Gly Lys Ile Ala Glu Ala
 20 25 30

Val Thr Leu Ile
 35

<210> 296
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 296
 Leu Asp Gln Ala Val Gln Ile Ile Asn Tyr Ile Lys Ala Arg Pro His
 1 5 10 15
 Gln Ser Arg Leu Leu Lys Ile Leu Cys Glu Glu Met Gly Ala Gln His
 20 25 30
 Thr Ala Leu Leu
 35

<210> 297
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 297
 Ser Ala Phe Arg Leu Ser Asp Cys Leu Thr Asn Ser Ser Trp Leu Leu
 1 5 10 15
 Arg Leu Ala Tyr Leu Ala Asp Ile Phe Thr Lys Leu Asn Glu Val Asn
 20 25 30
 Leu Ser Met Gln Gly Lys Asn Val Thr Val Phe Thr Val Phe Asp Lys
 35 40 45

Met

<210> 298
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 298
 Ser Asp Phe Leu Thr Glu Ile Asn Ser Thr Val Asp Lys Asp Ile Cys
 1 5 10 15
 Ser Ala Ile Val Gln His Leu Arg Gly Leu Arg Ala Thr Leu Leu Lys
 20 25 30

<210> 299
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 299
 Ser Asp Ser Gln Val Lys Gln Asn Phe Ser Glu Leu Ser Leu Asn Asp

1 5 10 15
 Phe Trp Ser Ser Leu Ile Gln Glu Tyr Pro Ser Ile Ala Arg Arg Ala
 20 25 30

Val Arg Val Leu Leu Pro
 35

<210> 300
 <211> 325
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (171)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (222)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 300
 Asp Pro Arg Val Arg Glu Cys Leu Gln Asp Trp Ala Ser Phe Leu Arg
 1 5 10 15

Leu Ala Ile Pro Ser Met Leu Met Leu Cys Met Glu Trp Trp Ala Tyr
 20 25 30

Glu Val Gly Ser Phe Leu Ser Gly Ile Leu Gly Met Val Glu Leu Gly
 35 40 45

Ala Gln Ser Ile Val Tyr Glu Leu Ala Ile Ile Val Tyr Met Val Pro
 50 55 60

Ala Gly Phe Ser Val Ala Ala Ser Val Arg Val Gly Asn Ala Leu Gly
 65 70 75 80

Ala Gly Asp Met Glu Gln Ala Arg Lys Ser Ser Thr Val Ser Leu Leu
 85 90 95

Ile Thr Val Leu Phe Ala Val Ala Phe Ser Val Leu Leu Leu Ser Cys
 100 105 110

Lys Asp His Val Gly Tyr Ile Phe Thr Thr Asp Arg Asp Ile Ile Asn
 115 120 125

Leu Val Ala Gln Val Val Pro Ile Tyr Ala Val Ser His Leu Phe Glu
 130 135 140

Ala Leu Ala Cys Thr Ser Gly Gly Val Leu Arg Gly Ser Gly Asn Gln
 145 150 155 160

Lys Val Gly Ala Ile Val Asn Thr Ile Gly Xaa Tyr Val Val Gly Leu
 165 170 175

Pro Ile Gly Ile Ala Leu Met Phe Ala Thr Thr Leu Gly Val Met Gly
 180 185 190
 Leu Trp Ser Gly Ile Ile Ile Cys Thr Val Phe Gln Ala Val Cys Phe
 195 200 205
 Leu Gly Phe Ile Ile Gln Leu Asn Trp Lys Lys Ala Cys Xaa Gln Ala
 210 215 220
 Gln Val His Ala Asn Leu Lys Val Asn Asn Val Pro Arg Ser Gly Asn
 225 230 235 240
 Ser Ala Leu Pro Gln Asp Pro Leu His Pro Gly Cys Pro Glu Asn Leu
 245 250 255
 Glu Gly Ile Leu Thr Asn Asp Val Gly Lys Thr Gly Glu Pro Gln Ser
 260 265 270
 Asp Gln Gln Met Arg Gln Glu Glu Pro Leu Pro Glu His Pro Gln Asp
 275 280 285
 Gly Ala Lys Leu Ser Arg Lys Gln Leu Val Leu Arg Arg Gly Leu Leu
 290 295 300
 Leu Leu Gly Val Phe Leu Ile Leu Leu Val Gly Ile Leu Val Arg Phe
 305 310 315 320
 Tyr Val Arg Ile Gln
 325

<210> 301
 <211> 328
 <212> PRT
 <213> Homo sapiens

<400> 301
 Gly Thr Arg Ile His Thr Ile Leu Val Tyr Gln Glu Ser Asn Arg Lys
 1 5 10 15
 Met Asp Ser Val Asp Pro Ala Ser Ser Gln Ala Met Glu Leu Ser Asp
 20 25 30
 Val Thr Leu Ile Glu Gly Val Gly Asn Glu Val Met Val Val Ala Gly
 35 40 45
 Val Val Val Leu Ile Leu Ala Leu Val Leu Ala Trp Leu Ser Thr Tyr
 50 55 60
 Val Ala Asp Ser Gly Ser Asn Gln Leu Leu Gly Ala Ile Val Ser Ala
 65 70 75 80
 Gly Asp Thr Ser Val Leu His Leu Gly His Val Asp His Leu Val Ala
 85 90 95
 Gly Gln Gly Asn Pro Glu Pro Thr Glu Leu Pro His Pro Ser Glu Gly
 100 105 110

Asn Asp Glu Lys Ala Glu Glu Ala Gly Glu Gly Arg Gly Asp Ser Thr
 115 120 125
 Gly Glu Ala Gly Ala Gly Gly Gly Val Glu Pro Ser Leu Glu His Leu
 130 135 140
 Leu Asp Ile Gln Gly Leu Pro Lys Arg Gln Ala Gly Ala Gly Ser Ser
 145 150 155 160
 Ser Pro Glu Ala Pro Leu Arg Ser Glu Asp Ser Thr Cys Leu Pro Pro
 165 170 175
 Ser Pro Gly Leu Ile Thr Val Arg Leu Lys Phe Leu Asn Asp Thr Glu
 180 185 190
 Glu Leu Ala Val Ala Arg Pro Glu Asp Thr Val Gly Ala Leu Lys Ser
 195 200 205
 Lys Tyr Phe Pro Gly Gln Glu Ser Gln Met Lys Leu Ile Tyr Gln Gly
 210 215 220
 Arg Leu Leu Gln Asp Pro Ala Arg Thr Leu Arg Ser Leu Asn Ile Thr
 225 230 235 240
 Asp Asn Cys Val Ile His Cys His Arg Ser Pro Pro Gly Ser Ala Val
 245 250 255
 Pro Gly Pro Ser Ala Ser Leu Ala Pro Ser Ala Thr Glu Pro Pro Ser
 260 265 270
 Leu Gly Val Asn Val Gly Ser Leu Met Val Pro Val Phe Val Val Leu
 275 280 285
 Leu Gly Val Val Trp Tyr Phe Arg Ile Asn Tyr Arg Gln Phe Phe Thr
 290 295 300
 Ala Pro Ala Thr Val Ser Leu Val Gly Val Thr Val Phe Phe Ser Phe
 305 310 315 320
 Leu Val Phe Gly Met Tyr Gly Arg
 325

<210> 302

<211> 26

<212> PRT

<213> Homo sapiens

<400> 302

Asp Ser Arg Ile Ser Leu Leu Val Asn Asn Ala Gly Val Gly Ala Thr
 1 5 10 15

Ala Ser Leu Leu Glu Ser Asp Ala Asp Lys
 20 25

<210> 303

<211> 159

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (110)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 303

Met Asp Ala Met Ile Leu Leu Asn Val Leu Ala Leu Thr Arg Leu Ala
 1 5 10 15

Lys Ala Ala Ala Thr Asn Phe Val Ala Gln Gly Arg Gly Thr Ile Ile
 20 25 30

Asn Ile Gly Ser Ile Val Ala Leu Ala Pro Lys Val Leu Asn Gly Val
 35 40 45

Tyr Gly Gly Thr Lys Ala Phe Val Gln Ala Phe Ser Glu Ser Leu Gln
 50 55 60

His Glu Leu Ser Asp Lys Gly Val Val Val Gln Val Val Leu Pro Gly
 65 70 75 80

Ala Thr Ala Thr Glu Phe Trp Asp Ile Ala Gly Leu Pro Val Asn Asn
 85 90 95

Leu Pro Glu Ala Met Val Met Thr Thr Glu Asn Leu Val Xaa Ala Ala
 100 105 110

Leu Ala Gly Leu Ala Gln Gly Glu Ala Val Thr Ile Pro Ser Leu Pro
 115 120 125

Asp Ser Ala Asp Trp Asp Thr Tyr Glu Arg Ala Arg Leu Ala Leu Gly
 130 135 140

Pro Asn Leu Ser His Arg Glu Pro Ala Ala Arg Tyr Gly Leu Lys
 145 150 155

<210> 304

<211> 146

<212> PRT

<213> Homo sapiens

<400> 304

Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg
 1 5 10 15

Pro Ser Arg Thr Glu Ser Ala Gln Thr Thr Gln His Ser Pro Leu Arg
 20 25 30

Pro Leu Trp Arg Leu Lys Arg Asp Ser Ser Pro Cys His Pro Gln Thr
 35 40 45

Arg Ala Asp Trp Gly Val Cys Pro Pro Trp Gly Gly Ala Ala Gln Gly
 50 55 60

Leu Arg Pro Gly Cys His Leu Ala Pro Arg Arg Cys Leu Cys Pro Gly
 65 70 75 80

Ser Cys Cys Pro Trp His Trp Ala Glu Ala Gln Trp Ser Phe Leu Trp
 85 90 95

Arg Gly Leu Trp Gly Leu Arg Thr Leu Pro Thr Ala Leu Arg Ala Ser
 100 105 110

Pro Ala Ala Ser Gly Thr Val Thr Tyr Ser Ala Cys Leu Gly Thr Ser
 115 120 125

Cys Leu Leu Arg Ala Pro Cys Trp Arg Leu Arg Thr Cys Arg Gln Ser
 130 135 140

Trp Cys
 145

<210> 305
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 305
 Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg
 1 5 10 15

Pro Ser Arg Thr Glu Ser Ala Gln Thr Thr Gln His
 20 25

<210> 306
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 306
 Ser Pro Leu Arg Pro Leu Trp Arg Leu Lys Arg Asp Ser Ser Pro Cys
 1 5 10 15

His Pro Gln Thr Arg Ala Asp Trp Gly Val Cys Pro Pro Trp
 20 25 30

<210> 307
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 307
 Gly Gly Ala Ala Gln Gly Leu Arg Pro Gly Cys His Leu Ala Pro Arg
 1 5 10 15

Arg Cys Leu Cys Pro Gly Ser Cys Cys Pro Trp His Trp Ala
 20 25 30

```
<210> 308
<211> 30
<212> PRT
<213> Homo sapiens
```

<400> 308
Glu Ala Gln Trp Ser Phe Leu Trp Arg Gly Leu Trp Gly Leu Arg Thr
1 5 10 15
Leu Pro Thr Ala Leu Arg Ala Ser Pro Ala Ala Ser Gly Thr
20 25 30

```
<210> 309
<211> 28
<212> PRT
<213> Homo sapiens
```

```

<400> 309
Val Thr Tyr Ser Ala Cys Leu Gly Thr Ser Cys Leu Leu Arg Ala Pro
  1                      5                      10                      15
Cys Trp Arg Leu Arg Thr Cys Arg Gln Ser Trp Cys
      20                      25

```

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<210> 310
<211> 507
<212> PRT
<213> Homo sapiens
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```
<400> 310
Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser Pro
  1                               5                10              15

Val Val Leu Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr His
      20                      25                  30

Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Asp Ile Leu Cys
      35                     40                   45

Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro Thr
      50                     55                   60

His Leu Gln Thr Glu Leu Val Leu Arg Cys Gln Lys Glu Thr Asp Cys
   65                          70                    75             80

Asp Leu Cys Leu Arg Val Ala Val His Leu Ala Val His Gly His Trp
      85                     90                   95

Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Leu Gly
     100                    105                  110

Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu Ser
    115                      120                    125

Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln Val
   130                       135                     140
```

Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val Tyr
 145 150 155 160
 Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser Tyr
 165 170 175
 Thr Gln Pro Arg Tyr Glu Lys Glu Leu Asn His Thr Gln Gln Leu Pro
 180 185 190
 Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp Ala
 195 200 205
 Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Leu Val
 210 215 220
 Leu Asn Val Ser Glu Glu Gln His Phe Gly Leu Ser Leu Tyr Trp Asn
 225 230 235 240
 Gln Val Gln Gly Pro Pro Lys Pro Arg Trp His Lys Asn Leu Thr Gly
 245 250 255
 Pro Gln Ile Ile Thr Leu Asn His Thr Asp Leu Val Pro Cys Leu Cys
 260 265 270
 Ile Gln Val Trp Pro Leu Glu Pro Asp Ser Val Arg Thr Asn Ile Cys
 275 280 285
 Pro Phe Arg Glu Asp Pro Arg Ala His Gln Asn Leu Trp Gln Ala Ala
 290 295 300
 Arg Leu Arg Leu Leu Thr Leu Gln Ser Trp Leu Leu Asp Ala Pro Cys
 305 310 315 320
 Ser Leu Pro Ala Glu Ala Ala Leu Cys Trp Arg Ala Pro Gly Gly Asp
 325 330 335
 Pro Cys Gln Pro Leu Val Pro Pro Leu Ser Trp Glu Asn Val Thr Val
 340 345 350
 Asp Lys Val Leu Glu Phe Pro Leu Leu Lys Gly His Pro Asn Leu Cys
 355 360 365
 Val Gln Val Asn Ser Ser Glu Lys Leu Gln Leu Gln Glu Cys Leu Trp
 370 375 380
 Ala Asp Ser Leu Gly Pro Leu Lys Asp Asp Val Leu Leu Leu Glu Thr
 385 390 395 400
 Arg Gly Pro Gln Asp Asn Arg Ser Leu Cys Ala Leu Glu Pro Ser Gly
 405 410 415
 Cys Thr Ser Leu Pro Ser Lys Ala Ser Thr Arg Ala Ala Arg Leu Gly
 420 425 430
 Glu Tyr Leu Leu Gln Asp Leu Gln Ser Gly Gln Cys Leu Gln Leu Trp
 435 440 445

Asp Asp Asp Leu Gly Ala Leu Trp Ala Cys Pro Met Asp Lys Tyr Ile
 450 455 460

His Lys Arg Trp Ala Leu Val Trp Leu Ala Cys Leu Leu Phe Arg Arg
 465 470 475 480

Ala Leu Ser Leu Ile Leu Leu Leu Lys Lys Asp His Ala Lys Gly Trp
 485 490 495

Leu Arg Leu Leu Lys Gln Asp Val Arg Ser Gly
 500 505

<210> 311
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 311
 Pro Pro Arg Pro Ser Thr Ser Gly Gln Trp Gly
 1 5 10

<210> 312
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 312
 Arg Arg Ser Pro Phe Thr Ser Ala Gln Thr Gly
 1 5 10

<210> 313
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 313
 Gly Thr Gly Trp Asp Phe Gly Leu Ala Ala Val Cys Leu Arg Ala Ala
 1 5 10 15

Glu Val Ala Gly Ser Phe Lys
 20

<210> 314
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 314
 Gly Tyr Arg Arg Val Phe Glu Glu Tyr Met Arg Val Ile Ser Gln Arg
 1 5 10 15

Tyr Pro Asp Ile Arg Ile Glu Gly Glu Asn Tyr Leu Pro Gln Pro Ile
 20 25 30

Tyr Arg His Ile Ala Ser Phe Leu Ser Val Phe Lys Leu Val Leu Ile
 35 40 45

Gly Leu Ile Ile Val Gly Lys Asp Pro Phe Ala Phe Phe Gly Met Gln
 50 55 60

Ala Pro Ser Ile Trp Gln Trp Gly Gln Glu Asn Lys Val Tyr Ala Cys
 65 70 75 80

Met Met Val Phe Phe Leu Ser Asn Met Ile Glu Asn Gln Cys Met Ser
 85 90 95

Thr Gly Ala Phe Glu Ile Thr Leu Asn Asp Val Pro Val Trp Ser Lys
 100 105 110

Leu Glu Ser Gly His Leu Pro Ser Met Gln Gln Leu Val Gln Ile Leu
 115 120 125

Asp Asn Glu Met Lys Leu Asn Val His Met Asp Ser Ile Pro His His
 130 135 140

Arg Ser
 145

<210> 315

<211> 34

<212> PRT

<213> Homo sapiens

<400> 315

Gly Tyr Arg Arg Val Phe Glu Glu Tyr Met Arg Val Ile Ser Gln Arg
 1 5 10 15

Tyr Pro Asp Ile Arg Ile Glu Gly Glu Asn Tyr Leu Pro Gln Pro Ile
 20 25 30

Tyr Arg

<210> 316

<211> 34

<212> PRT

<213> Homo sapiens

<400> 316

His Ile Ala Ser Phe Leu Ser Val Phe Lys Leu Val Leu Ile Gly Leu
 1 5 10 15

Ile Ile Val Gly Lys Asp Pro Phe Ala Phe Phe Gly Met Gln Ala Pro
 20 25 30

Ser Ile

<210> 317

<211> 34
 <212> PRT
 <213> Homo sapiens

<400> 317
 Trp Gln Trp Gly Gln Glu Asn Lys Val Tyr Ala Cys Met Met Val Phe
 1 5 10 15
 Phe Leu Ser Asn Met Ile Glu Asn Gln Cys Met Ser Thr Gly Ala Phe
 20 25 30

Glu Ile

<210> 318
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 318
 Thr Leu Asn Asp Val Pro Val Trp Ser Lys Leu Glu Ser Gly His Leu
 1 5 10 15
 Pro Ser Met Gln Gln Leu Val Gln Ile Leu Asp Asn Glu Met Lys Leu
 20 25 30

Asn Val His Met
 35

<210> 319
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 319
 Asp Ser Ile Pro His His Arg Ser
 1 5

<210> 320
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 320
 Gly Arg Ala Arg Gly Arg Pro Pro Gly Pro Glu Ala Ala Pro Ala Ser
 1 5 10 15
 Leu Ser Val Ser Leu Arg Arg Glu Val His Ser Arg Gly Glu
 20 25 30

<210> 321
 <211> 333
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 321
 Gln Thr Pro Phe Thr Cys Thr Leu Ile His Arg His Ala Cys Xaa Xaa
 1 5 10 15
 Pro Val Arg Xaa Ser Arg Val Asp Pro Arg Val Arg Gly Lys Gln Ala
 20 25 30
 Leu Ile Trp Leu Leu Gly Val His Gly Glu Arg Ile Pro Asn Ala Pro
 35 40 45
 Tyr Val Leu Glu Asp Phe Val Glu Asn Val Lys Ser Glu Thr Phe Pro
 50 55 60
 Ala Val Lys Met Glu Leu Leu Thr Ala Leu Leu Arg Leu Phe Leu Ser
 65 70 75 80
 Arg Pro Ala Glu Cys Gln Asp Met Leu Gly Arg Leu Leu Tyr Tyr Cys
 85 90 95
 Ile Glu Glu Glu Lys Asp Met Ala Val Arg Asp Arg Gly Leu Phe Tyr
 100 105 110
 Tyr Arg Leu Leu Leu Val Gly Ile Asp Glu Val Lys Arg Ile Leu Cys
 115 120 125
 Ser Pro Lys Ser Asp Pro Thr Leu Gly Leu Leu Glu Asp Pro Ala Glu
 130 135 140
 Arg Pro Val Asn Ser Trp Ala Ser Asp Phe Asn Thr Leu Val Pro Val
 145 150 155 160
 Tyr Gly Lys Ala His Trp Ala Thr Ile Ser Lys Cys Gln Gly Ala Glu
 165 170 175
 Arg Cys Asp Pro Glu Leu Pro Lys Thr Ser Ser Phe Ala Ala Ser Gly
 180 185 190
 Pro Leu Ile Pro Glu Glu Asn Lys Glu Arg Val Gln Glu Leu Pro Asp
 195 200 205
 Ser Gly Ala Leu Met Leu Val Pro Asn Arg Gln Leu Thr Ala Asp Tyr
 210 215 220

Phe Glu Lys Thr Trp Leu Ser Leu Lys Val Ala His Gln Gln Val Leu
 225 230 235 240

Pro Trp Arg Gly Glu Phe His Pro Asp Thr Leu Gln Met Ala Leu Gln
 245 250 255

Val Val Asn Ile Gln Thr Ile Ala Met Ser Arg Ala Gly Ser Arg Pro
 260 265 270

Trp Lys Ala Tyr Leu Ser Ala Gln Asp Asp Thr Gly Cys Leu Phe Leu
 275 280 285

Thr Glu Leu Leu Leu Glu Pro Gly Asn Ser Glu Met Gln Ile Ser Val
 290 295 300

Lys Gln Asn Glu Ala Arg Thr Glu Thr Leu Asn Ser Phe Ile Ser Val
 305 310 315 320

Leu Glu Thr Val Ile Gly Thr Ile Glu Glu Ile Lys Ser
 325 330

<210> 322

<211> 12

<212> PRT

<213> Homo sapiens

<400> 322

Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys Ile Cys
 1 5 10

<210> 323

<211> 12

<212> PRT

<213> Homo sapiens

<400> 323

Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys
 1 5 10

<210> 324

<211> 14

<212> PRT

<213> Homo sapiens

<400> 324

Cys Ile Cys Ala Glu Gly Tyr Lys Gln Met Glu Gly Ile Cys
 1 5 10

<210> 325

<211> 27

<212> PRT

<213> Homo sapiens

<400> 325

Asp Ile Asp Glu Cys Gly Thr Glu Gly Ala Asn Cys Gly Ala Asp Gln
 1 5 10 15

Phe Cys Val Asn Thr Glu Gly Ser Tyr Glu Cys
 20 25

<210> 326

<211> 26

<212> PRT

<213> Homo sapiens

<400> 326

Asp Val Asp Glu Cys Glu Thr Glu Val Cys Pro Gly Glu Asn Lys Gln
 1 5 10 15

Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys
 20 25

<210> 327

<211> 34

<212> PRT

<213> Homo sapiens

<400> 327

Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys Gly Gln Cys Gly
 1 5 10 15

Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His Leu Val Cys Ser
 20 25 30

Ala Cys

<210> 328

<211> 389

<212> PRT

<213> Homo sapiens

<400> 328

Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe Leu
 1 5 10 15

Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln Leu Gln
 20 25 30

Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly Gly Glu Val
 35 40 45

Val Leu Pro Ala Trp Tyr Thr Leu His Gly Glu Val Ser Ser Ser Gln
 50 55 60

Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe Lys Gln Lys Glu Lys
 65 70 75 80

Glu Asp Gln Val Leu Ser Tyr Ile Asn Gly Val Thr Thr Ser Lys Pro
 85 90 95

Gly Val Ser Leu Val Tyr Ser Met Pro Ser Arg Asn Leu Ser Leu Arg
 100 105 110

Leu Glu Gly Leu Gln Glu Lys Asp Ser Gly Pro Tyr Ser Cys Ser Val
 115 120 125

Asn Val Gln Asn Lys Gln Gly Lys Ser Arg Gly His Ser Ile Lys Thr
 130 135 140

Leu Glu Leu Asn Val Leu Val Pro Pro Ala Pro Pro Ser Cys Arg Leu
 145 150 155 160

Gln Gly Val Pro His Val Gly Ala Asn Val Thr Leu Ser Cys Gln Ser
 165 170 175

Pro Arg Ser Lys Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu Pro
 180 185 190

Ser Phe Gln Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Gly Ser
 195 200 205

Leu Ser Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys
 210 215 220

Lys Ala His Asn Glu Val Gly Thr Ala Gln Cys Asn Val Thr Leu Glu
 225 230 235 240

Val Ser Thr Gly Pro Gly Ala Ala Val Val Ala Gly Ala Val Val Gly
 245 250 255

Thr Leu Val Gly Leu Gly Leu Leu Ala Gly Leu Val Leu Leu Tyr His
 260 265 270

Arg Arg Gly Lys Ala Leu Glu Glu Pro Ala Asn Asp Ile Lys Glu Asp
 275 280 285

Ala Ile Ala Pro Arg Thr Leu Pro Trp Pro Lys Ser Ser Asp Thr Ile
 290 295 300

Ser Lys Asn Gly Thr Leu Ser Ser Val Thr Ser Ala Arg Ala Leu Arg
 305 310 315 320

Pro Pro His Gly Pro Pro Arg Pro Gly Ala Leu Thr Pro Thr Pro Ser
 325 330 335

Leu Ser Ser Gln Ala Leu Pro Ser Pro Arg Leu Pro Thr Thr Asp Gly
 340 345 350

Ala His Pro Gln Pro Ile Ser Pro Ile Pro Gly Gly Val Ser Ser Ser
 355 360 365

Gly Leu Ser Arg Met Gly Ala Val Pro Val Met Val Pro Ala Gln Ser
 370 375 380

Gln Ala Gly Ser Leu

385

<210> 329
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 329
 Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe Leu
 1 5 10 15
 Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln Leu Gln
 20 25 30

Leu His Leu
 35

<210> 330
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 330
 Pro Ala Asn Arg Leu Gln Ala Val Glu Gly Gly Glu Val Val Leu Pro
 1 5 10 15
 Ala Trp Tyr Thr Leu His Gly Glu Val Ser Ser Ser Gln Pro Trp Glu
 20 25 30

Val Pro Phe.
 35

<210> 331
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 331
 Val Met Trp Phe Phe Lys Gln Lys Glu Lys Glu Asp Gln Val Leu Ser
 1 5 10 15
 Tyr Ile Asn Gly Val Thr Thr Ser Lys Pro Gly Val Ser Leu Val Tyr
 20 25 30

Ser Met Pro
 35

<210> 332
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 332
 Ser Arg Asn Leu Ser Leu Arg Leu Glu Gly Leu Gln Glu Lys Asp Ser

185

1 5 10 15
Gly Pro Tyr Ser Cys Ser Val Asn Val Gln Asn Lys Gln Gly Lys Ser
 20 25 30

Arg Gly His
 35

<210> 333
<211> 35
<212> PRT
<213> Homo sapiens

<400> 333
Ser Ile Lys Thr Leu Glu Leu Asn Val Leu Val Pro Pro Ala Pro Pro
1 5 10 15

Ser Cys Arg Leu Gln Gly Val Pro His Val Gly Ala Asn Val Thr Leu
 20 25 30

Ser Cys Gln
 35

<210> 334
<211> 35
<212> PRT
<213> Homo sapiens

<400> 334
Ser Pro Arg Ser Lys Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu
1 5 10 15

Pro Ser Phe Gln Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Gly
 20 25 30

Ser Leu Ser
 35

<210> 335
<211> 35
<212> PRT
<213> Homo sapiens

<400> 335
Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys Lys Ala
1 5 10 15

His Asn Glu Val Gly Thr Ala Gln Cys Asn Val Thr Leu Glu Val Ser
 20 25 30

Thr Gly Pro
 35

<210> 336

<211> 35
 <212> PRT
 <213> Homo sapiens

<400> 336
 Gly Ala Ala Val Val Ala Gly Ala Val Val Gly Thr Leu Val Gly Leu
 1 5 10 15
 Gly Leu Leu Ala Gly Leu Val Leu Leu Tyr His Arg Arg Gly Lys Ala
 20 25 30
 Leu Glu Glu
 35

<210> 337
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 337
 Pro Ala Asn Asp Ile Lys Glu Asp Ala Ile Ala Pro Arg Thr Leu Pro
 1 5 10 15
 Trp Pro Lys Ser Ser Asp Thr Ile Ser Lys Asn Gly Thr Leu Ser Ser
 20 25 30
 Val Thr Ser
 35

<210> 338
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 338
 Ala Arg Ala Leu Arg Pro Pro His Gly Pro Pro Arg Pro Gly Ala Leu
 1 5 10 15
 Thr Pro Thr Pro Ser Leu Ser Ser Gln Ala Leu Pro Ser Pro Arg Leu
 20 25 30
 Pro Thr Thr
 35

<210> 339
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 339
 Asp Gly Ala His Pro Gln Pro Ile Ser Pro Ile Pro Gly Gly Val Ser
 1 5 10 15
 Ser Ser Gly Leu Ser Arg Met Gly Ala Val Pro Val Met Val Pro Ala
 20 25 30

Gln Ser Gln Ala Gly Ser Leu
35

<210> 340
<211> 36
<212> PRT
<213> Homo sapiens

<400> 340
Leu Ser Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys
1 5 10 15

Lys Ala His Asn Glu Val Gly Thr Ala Gln Cys Asn Val Thr Leu Glu
20 25 30

Val Ser Thr Gly
35

<210> 341
<211> 27
<212> PRT
<213> Homo sapiens

<400> 341
Gly Ser Ser Phe Val Val Ser Glu Gly Ser Tyr Leu Asp Ile Ser Asp
1 5 10 15

Trp Leu Asn Pro Ala Lys Leu Ser Leu Tyr Tyr
20 25

<210> 342
<211> 12
<212> PRT
<213> Homo sapiens

<400> 342
Leu Asp Ile Ser Asp Trp Leu Asn Pro Ala Lys Leu
1 5 10

<210> 343
<211> 11
<212> PRT
<213> Homo sapiens

<400> 343
Ser Asp Trp Leu Asn Pro Ala Lys Leu Ser Leu
1 5 10

<210> 344
<211> 13
<212> PRT
<213> Homo sapiens

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<210> 345
<211> 21
<212> PRT
<213> Homo sapiens
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<210> 346
<211> 23
<212> PRT
<213> Homo sapiens
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<210> 347
<211> 123
<212> PRT
<213> Homo sapiens
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<400> 347
Met Met Val Trp Asn Leu Phe Pro Cys Phe Pro Pro Leu Leu Leu Leu
  1              5              10              15
Gln Phe Ile Asp Cys Gln Gln Ser Ser Glu Ile Glu Gln Gly Phe Thr
      20              25              30
Arg Ser Leu Leu Gly His Pro Ile Phe Phe Cys Pro Asp Pro Cys Trp
      35              40              45
Gln Ser Cys Met Asn Cys Val Ile Leu Ser Val Leu Ser Phe Phe Phe
      50              55              60
Leu Ile Arg Trp Ile Ser Lys Ile Val Ala Val Gln Lys Leu Glu Ser
      65              70              75              80
Ser Ser Arg Arg Lys Pro Ile Leu Phe Leu Ile Ile Ser Cys Glu Ile
      85              90              95
Ala Ser Phe Ile His Leu Phe Leu Ser Gln Met Ser Ala Glu Cys Cys
      100              105              110

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Cys Phe Tyr Leu Val Ile Leu Ile Cys Lys Tyr
 115 120

<210> 348
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 348
 Met Met Val Trp Asn Leu Phe Pro Cys Phe Pro Pro Leu Leu Leu Leu
 1 5 10 15

Gln Phe Ile Asp Cys Gln Gln Ser Ser Glu Ile Glu
 20 25

<210> 349
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 349
 Gln Gly Phe Thr Arg Ser Leu Leu Gly His Pro Ile Phe Phe Cys Pro
 1 5 10 15

Asp Pro Cys Trp Gln Ser Cys Met Asn Cys Val Ile
 20 25

<210> 350
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 350
 Leu Ser Val Leu Ser Phe Phe Phe Leu Ile Arg Trp Ile Ser Lys Ile
 1 5 10 15

Val Ala Val Gln Lys Leu Glu Ser Ser Ser Arg Arg Lys Pro Ile Leu
 20 25 30

Phe Leu Ile
 35

<210> 351
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 351
 Ile Ser Cys Glu Ile Ala Ser Phe Ile His Leu Phe Leu Ser Gln Met
 1 5 10 15

Ser Ala Glu Cys Cys Cys Phe Tyr Leu Val Ile Leu Ile Cys Lys Tyr
 20 25 30

<210> 352
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 352
 Lys Val Asp Thr Pro Arg Arg His Phe Cys Pro Glu Ile Ser Phe Phe
 1 5 10 15
 Leu Thr Pro Leu Pro Gln Ser Ala Arg Asn Ser Thr Val Arg Asn Ala
 20 25 30
 Leu Ser Gly Leu Lys Asn Leu Thr Pro Ala Met Ile Ser Thr Val Ser
 35 40 45
 Lys Gln Asp Thr Ser Lys Leu Gly Glu Glu Glu
 50 55

<210> 353
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 353
 Pro Thr Arg Pro Pro Thr Arg Pro Leu Ser Phe Thr Phe Thr Lys Gln
 1 5 10 15
 Thr Ser Ser Thr Cys Leu Ser Leu His Phe
 20 25

<210> 354
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 354
 Leu Glu Cys Val Leu Leu Ile Cys Phe Arg Ala Met Ser Ala Ile Tyr
 1 5 10 15
 Thr His Thr Ser Ile Gly Asn Ala Gln Lys Leu Phe Thr Asp Gly Ser
 20 25 30
 Ala Phe Arg Arg Val Arg Glu Pro Leu Pro Lys Glu Gly Lys Ser Trp
 35 40 45
 Pro Gln
 50

<210> 355
 <211> 22

<212> PRT
 <213> Homo sapiens

<400> 355
 Lys Gln Asn Leu Thr Asn Leu Asp Val Pro Val Gln Tyr His Val Ala
 1 5 10 15
 Leu Ser Asp Lys Val Lys
 20

<210> 356
 <211> 117
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 356
 Pro Ser Cys Pro Pro Glu Met Lys Lys Glu Leu Pro Val Asp Ser Cys
 1 5 10 15
 Leu Pro Arg Ser Leu Glu Leu His Pro Gln Lys Met Asp Pro Lys Arg
 20 25 30
 Gln His Ile Gln Leu Leu Ser Ser Leu Thr Glu Cys Leu Thr Val Asp
 35 40 45
 Pro Leu Ser Ala Ser Val Trp Arg Gln Leu Tyr Pro Lys His Leu Ser
 50 55 60
 Gln Ser Ser Leu Leu Leu Xaa His Leu Leu Ser Ser Trp Glu Gln Ile
 65 70 75 80
 Pro Lys Lys Val Gln Lys Ser Leu Gln Glu Thr Ile Gln Ser Leu Lys
 85 90 95
 Leu Thr Asn Gln Glu Leu Leu Arg Lys Gly Ser Ser Asn Asn Gln Asp
 100 105 110
 Val Val Thr Cys Asp
 115

<210> 357
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 357
 Lys Ala Pro Tyr Ser Trp Leu Ala Asp Ser Trp Pro His Pro Ser Arg
 1 5 10 15
 Ser Pro Ser Ala Gln Glu Pro Arg Gly Ser Cys Cys Pro Ser Asn Pro
 20 25 30

```

Asp Pro Asp Asp Arg Tyr Tyr Asn Glu Ala Gly Ile Ser Leu Tyr Leu
      35                     40                      45

Ala Gln Thr Ala Arg Gly Thr Ala Ala Pro Gly Glu Gly Pro Val Tyr
      50                     55                      60

Ser Thr Ile Asp Pro Ala Gly Glu Glu Leu Gln Thr Phe His Gly Gly
      65                     70                      75                      80

Phe Pro Gln His Pro Ser Gly Asp Leu Gly Pro Trp Ser Gln Tyr Ala
           85                     90                      95

Pro Pro Glu Trp Ser Gln Gly
          100

```

```
<210> 358
<211> 43
<212> PRT
<213> Homo sapiens
```

```

<400> 358
Leu Gln Gln Thr Met Gln Ala Met Leu His Phe Gly Gly Arg Leu Ala
 1             5             10             15

Gln Ser Leu Arg Gly Thr Ser Lys Glu Ala Ala Ser Asp Pro Ser Asp
          20             25             30

Ser Pro Asn Leu Pro Thr Pro Gly Ser Trp Trp
      35             40

```

```
<210> 359
<211> 45
<212> PRT
<213> Homo sapiens
```

```

<400> 359
Glu Gln Leu Thr Gln Ala Ser Arg Val Tyr Ala Ser Gly Gly Thr Glu
  1             5             10             15
Gly Phe Pro Leu Ser Arg Trp Ala Pro Gly Arg His Gly Thr Ala Ala
      20             25             30
Glu Glu Gly Ala Gln Glu Arg Pro Leu Pro Thr Asp Glu
      35             40             45

```

```
<210> 360
<211> 45
<212> PRT
<213> Homo sapiens
```

<400> 360
Met Ala Pro Gly Arg Gly Leu Trp Leu Gly Arg Leu Phe Gly Val Pro
1 5 10 15

Gly Gly Pro Ala Glu Asn Glu Asn Gly Ala Leu Lys Ser Arg Arg Pro
 20 25 30

Ser Ser Trp Leu Pro Pro Thr Val Ser Val Leu Ala Leu
 35 40 45

<210> 361
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 361
 Val Lys Arg Gly Ala Pro Pro Glu Met Pro Ser Pro Gln Glu Leu Glu
 1 5 10 15

Ala Ser Ala Pro Arg Met Val Gln Thr His Arg Ala Val Arg Ala Leu
 20 25 30

Cys Asp His Thr Ala Ala Arg Pro Asp Gln Leu Ser
 35 40

<210> 362
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 362
 Phe Arg Arg Gly Glu Val Leu Arg Val Ile Thr Thr Val Asp Glu Asp
 1 5 10 15

Trp Leu Arg Cys Gly Arg Asp Gly Met Glu Gly Leu Val Pro Val Gly
 20 25 30

Tyr Thr Ser Leu Val Leu
 35

<210> 363
 <211> 215
 <212> PRT
 <213> Homo sapiens

<400> 363
 Leu Gln Gln Thr Met Gln Ala Met Leu His Phe Gly Gly Arg Leu Ala
 1 5 10 15

Gln Ser Leu Arg Gly Thr Ser Lys Glu Ala Ala Ser Asp Pro Ser Asp
 20 25 30

Ser Pro Asn Leu Pro Thr Pro Gly Ser Trp Trp Glu Gln Leu Thr Gln
 35 40 45

Ala Ser Arg Val Tyr Ala Ser Gly Gly Thr Glu Gly Phe Pro Leu Ser
 50 55 60

Arg Trp Ala Pro Gly Arg His Gly Thr Ala Ala Glu Glu Gly Ala Gln

<210> 365

<211> 136
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (130)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 365
 Met Ser Pro Asn Leu Asn Ala Thr His Thr Ser Ala Gln Thr Pro Gly
 1 5 10 15
 Phe Met Glu Arg Lys Thr Thr His Thr Val Ala Gln Ala Leu Ser His
 20 25 30
 Ala Val Arg Thr Ile Arg Gly Ala Arg Ser Pro Leu Arg Pro Asp Ala
 35 40 45
 Ser Arg Thr Pro Thr Ser Cys Gln Met Ser Thr Gln Ser Leu Leu Ile
 50 55 60
 Cys Lys Ala Arg Leu Pro Ser Phe Gln Asn Pro Arg His Cys Leu Thr
 65 70 75 80
 Lys Thr Ala Leu Cys Lys Glu Leu Gly Ser Asn Leu Ser Pro Val Arg
 85 90 95
 Pro Ala Lys Ile Ser Pro Ser Ala Leu Thr Cys Glu Gln His Val Gly
 100 105 110
 Leu Glu Ser Gly Trp Thr Gly Phe Pro Pro Ser Phe Ser Thr Ala Ala
 115 120 125
 Pro Xaa Leu Gly Gln Ala Arg Ala
 130 135

<210> 366
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 366
 Phe Gln Ser Val Tyr His Met Lys Leu Gln Ser Ser Asn Leu Pro Ala
 1 5 10 15
 Ser Val Tyr Gly Asn Asn Leu Asn Cys Ile Asn Ser Ser Ser Ser
 20 25 30

<210> 367
 <211> 241
 <212> PRT
 <213> Homo sapiens

<400> 367
 Gly Leu Ser Ile His Asp Gly Thr Trp Lys Ser Ala Ile Tyr Gly Phe

```
<210> 368
<211> 62
<212> PRT
<213> Homo sapiens
```

<400> 368
Met Asp Pro Asp Arg Ala Phe Ile Cys Gly Glu Ser Arg Gln Phe Ala
1 5 10 15
Gln Cys Leu Ile Phe Gly Phe Leu Phe Leu Thr Ser Gly Met Leu Ile

20 25 30

Ser Val Leu Gly Ile Trp Val Pro Gly Cys Gly Ser Asn Trp Ala Gln
35 40 45

Glu Pro Leu Asn Glu Thr Asp Thr Gly Asp Ser Glu Pro Arg
50 55 60

<210> 369
<211> 229
<212> PRT
<213> Homo sapiens

<400> 369
Met Asp Pro Asp Arg Ala Phe Ile Cys Gly Glu Ser Arg Gln Phe Ala
1 5 10 15

Gln Cys Leu Ile Phe Gly Phe Leu Phe Leu Thr Ser Gly Met Leu Ile
20 25 30

Ser Val Leu Gly Ile Trp Val Pro Gly Cys Gly Ser Asn Trp Ala Gln
35 40 45

Glu Pro Leu Asn Glu Thr Asp Thr Gly Asp Ser Glu Pro Arg Met Cys
50 55 60

Gly Phe Leu Ser Leu Gln Ile Met Gly Pro Leu Ile Val Leu Val Gly
65 70 75 80

Leu Cys Phe Phe Val Val Ala His Val Lys Lys Arg Asn Thr Leu Asn
85 90 95

Ala Gly Gln Asp Ala Ser Glu Arg Glu Glu Gly Gln Ile Gln Ile Met
100 105 110

Glu Pro Val Gln Val Thr Val Gly Asp Ser Val Ile Ile Phe Pro Pro
115 120 125

Pro Pro Pro Pro Tyr Phe Pro Glu Ser Ser Ala Ser Ala Val Ala Glu
130 135 140

Ser Pro Gly Thr Asn Ser Leu Leu Pro Asn Glu Asn Pro Pro Ser Tyr
145 150 155 160

Tyr Ser Ile Phe Asn Tyr Gly Thr Pro Thr Ser Glu Gly Ala Ala Ser
165 170 175

Glu Arg Asp Cys Glu Ser Ile Tyr Thr Ile Ser Gly Thr Asn Ser Ser
180 185 190

Ser Glu Ala Ser His Thr Pro His Leu Pro Ser Glu Leu Pro Pro Arg
195 200 205

Tyr Glu Glu Lys Glu Asn Ala Ala Ala Thr Phe Leu Pro Leu Ser Ser
210 215 220

Glu Pro Ser Pro Pro

225

<210> 370
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 370
 Phe Asp Phe Ile Ala Ser Leu Leu Lys Ala Asn Arg Leu Ser Leu Gln
 1 5 10 15
 Thr Cys Glu Leu Leu Leu Ala Ala Ala Leu Leu Pro Ser Glu Arg Tyr
 20 25 30
 Lys Ala Ile Ser Ile
 35

<210> 371
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 371
 Met Asn Lys Lys Ala Glu Leu Lys Pro Ser Ala Leu Pro Gly Trp Ala
 1 5 10 15
 Asn Val Trp Lys Leu Met Cys Leu Val Thr Val Cys Ala Ser Leu Ile
 20 25 30
 Ile Thr Ser Asp Ser Val Val Ser Thr Val Arg Leu Lys Gly Ser Cys
 35 40 45
 Glu Asp Tyr Leu Gly Leu Ser Cys Gly Asn Thr Ser His Ala Tyr
 50 55 60

<210> 372
 <211> 434
 <212> PRT
 <213> Homo sapiens

<400> 372
 Met Ser Ala Asp Gly Ala Glu Ala Asp Gly Ser Thr Gln Val Thr Val
 1 5 10 15
 Glu Glu Pro Val Gln Gln Pro Ser Val Val Asp Arg Val Ala Ser Met
 20 25 30
 Pro Leu Ile Ser Ser Thr Cys Asp Met Val Ser Ala Ala Tyr Ala Ser
 35 40 45
 Thr Lys Glu Ser Tyr Pro His Val Lys Thr Val Cys Asp Ala Ala Glu
 50 55 60
 Lys Gly Val Arg Thr Leu Thr Ala Ala Ala Val Ser Gly Ala Gln Pro
 65 70 75 80

Ile Leu Ser Lys Leu Glu Pro Gln Ile Ala Ser Ala Ser Glu Tyr Ala
 85 90 95
 His Arg Gly Leu Asp Lys Leu Glu Glu Asn Leu Pro Ile Leu Gln Gln
 100 105 110
 Pro Thr Glu Lys Val Leu Ala Asp Thr Lys Glu Leu Val Ser Ser Lys
 115 120 125
 Val Ser Gly Ala Gln Glu Met Val Ser Ser Ala Lys Asp Thr Val Ala
 130 135 140
 Thr Gln Leu Ser Glu Ala Val Asp Ala Thr Arg Gly Ala Val Gln Ser
 145 150 155 160
 Gly Val Asp Lys Thr Lys Ser Val Val Thr Gly Gly Val Gln Ser Val
 165 170 175
 Met Gly Ser Arg Leu Gly Gln Met Val Leu Ser Gly Val Asp Thr Val
 180 185 190
 Leu Gly Lys Ser Glu Glu Trp Ala Asp Asn His Leu Pro Leu Thr Asp
 195 200 205
 Ala Glu Leu Ala Arg Ile Ala Thr Ser Leu Asp Gly Phe Asp Val Ala
 210 215 220
 Ser Val Gln Gln Gln Arg Gln Glu Gln Ser Tyr Phe Val Arg Leu Gly
 225 230 235 240
 Ser Leu Ser Glu Arg Leu Arg Gln His Ala Tyr Glu His Ser Leu Gly
 245 250 255
 Lys Leu Arg Ala Thr Lys Gln Arg Ala Gln Glu Ala Leu Leu Gln Leu
 260 265 270
 Ser Gln Ala Leu Ser Leu Met Glu Thr Val Lys Gln Gly Val Asp Gln
 275 280 285
 Lys Leu Val Glu Gly Gln Glu Lys Leu His Gln Met Trp Leu Ser Trp
 290 295 300
 Asn Gln Lys Gln Leu Gln Gly Pro Glu Lys Glu Pro Pro Lys Pro Glu
 305 310 315 320
 Gln Val Glu Ser Arg Ala Leu Thr Met Phe Arg Asp Ile Ala Gln Gln
 325 330 335
 Leu Gln Ala Thr Cys Thr Ser Leu Gly Ser Ser Ile Gln Gly Leu Pro
 340 345 350
 Thr Asn Val Lys Asp Gln Val Gln Gln Ala Arg Arg Gln Val Glu Asp
 355 360 365
 Leu Gln Ala Thr Phe Ser Ser Ile His Ser Phe Gln Asp Leu Ser Ser
 370 375 380

Ser Ile Leu Ala Gln Ser Arg Glu Arg Val Ala Ser Ala Arg Glu Ala
 385 390 395 400

Leu Asp His Met Val Glu Tyr Val Ala Gln Asn Thr Pro Val Thr Trp
 405 410 415

Leu Val Gly Pro Phe Ala Pro Gly Ile Thr Glu Lys Ala Pro Glu Glu
 420 425 430

Lys Lys

<210> 373

<211> 66

<212> PRT

<213> Homo sapiens

<400> 373

Met Leu Cys Lys Ser Leu Leu Tyr Cys Val Val Ser Tyr Leu Tyr Tyr
 1 5 10 15

Phe Val Phe Ile Tyr Phe Phe Pro Val Phe Leu Ile Cys Ser Trp Leu
 20 25 30

Glu Leu Gln Met Trp Asn Leu Gln Ile Gly Arg Ala Asp Cys Phe Gln
 35 40 45

Asn Thr Leu Val Tyr Val Leu Ser Leu Cys Leu Gln Tyr Lys Asn His
 50 55 60

Pro Ala
 65

<210> 374

<211> 25

<212> PRT

<213> Homo sapiens

<400> 374

Ile Asp Leu Ser Phe Pro Ser Thr Asn Val Ser Leu Glu Asp Arg Asn
 1 5 10 15

Thr Thr Lys Pro Ser Val Asn Val Gly
 20 25

<210> 375

<211> 12

<212> PRT

<213> Homo sapiens

<400> 375

Val Ala His Ala Cys Asn Pro Ser Thr Leu Gly Gly
 1 5 10

<210> 376
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 376
 Gly Gly Gln Ile Thr Arg Ser Gly Asp Gln Asp Gln Pro Asp Gln His
 1 5 10 15

Gly

<210> 377
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 377
 Gly Phe Thr Met Leu Val Arg Leu Val Leu Ile Ser
 1 5 10

<210> 378
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 378
 Pro Arg Asp Leu Pro Thr Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly
 1 5 10 15

Met Ser His Pro Ala Arg Pro Lys Leu Leu Phe Asn
 20 25

<210> 379
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 379
 Pro Phe Trp Ala Ala Glu Ser Ala Leu Asp Phe His Trp Pro Phe Gly
 1 5 10 15

Gly Ala Leu Cys Lys Met Val Leu Thr Ala Thr Val Leu Asn Val Tyr
 20 25 30

Ala Ser Ile Phe Leu Ile Thr Ala Leu Ser Val Ala Arg Tyr
 35 40 45

<210> 380
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 380

Thr His Ala Asp Lys Asn Gln Val Arg Asn Ser Asn
 1 5 10

<210> 381
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 381
 Gln Phe Leu Ser Trp Glu Gln Cys Thr Gly Asn Thr Glu Ser Gln
 1 5 10 15

<210> 382
 <211> 13
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 382
 Val Arg Arg Pro Lys Ala Lys Gly Xaa Gln Thr Ser Asn
 1 5 10

<210> 383
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 383
 Pro Thr Gln Leu Asn Lys His Lys Pro Thr Thr Lys Glu Arg Arg Arg
 1 5 10 15

Lys Gly Leu

<210> 384
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 384
 Leu Ile Ser Lys His Glu Asn Ile Tyr
 1 5

<210> 385
 <211> 27
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 385
 Thr Leu Tyr Ile Xaa Xaa Met Xaa Thr Gln Thr Trp Arg Asp Gln Gly
 1 5 10 15
 Arg Cys Gly Arg Asp Xaa Ile Asn Cys Ile Val
 20 25

<210> 386
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 386
 Ser Leu Cys Thr Pro Gly Arg Gly Trp Glu Glu Ser Trp Gly Ser Ser
 1 5 10 15
 Leu Pro Asn Leu Thr Gly Trp Ser Val Ser Ser Leu Asp Asn Asn Asp
 20 25 30
 Val

<210> 387
 <211> 204
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (107)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 387
 Met Gln Val Ala Leu Lys Glu Asp Leu Asp Ala Leu Lys Glu Lys Phe
 1 5 10 15
 Arg Thr Met Glu Ser Asn Gln Lys Ser Ser Phe Gln Glu Ile Pro Lys

[illegible]

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<210> 388
<211> 43
<212> PRT
<213> Homo sapiens
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<400> 388
Met Gln Val Ala Leu Lys Glu Asp Leu Asp Ala Leu Lys Glu Lys Phe
  1                      5                      10                      15

Arg Thr Met Glu Ser Asn Gln Lys Ser Ser Phe Gln Glu Ile Pro Lys
          20                      25                      30

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Leu Asn Glu Glu Leu Leu Ser Lys Gln Lys Gln
35 40

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<210> 389  
<211> 43  
<212> PRT  
<213> Homo sapiens
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<400> 389

Leu Glu Lys Ile Glu Ser Gly Glu Met Gly Leu Asn Lys Val Trp Ile
 1 5 10 15

Asn Ile Thr Glu Met Asn Lys Gln Ile Ser Leu Leu Thr Ser Ala Val
 20 25 30

Asn His Leu Lys Ala Asn Val Lys Ser Ala Ala
 35 40

<210> 390

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 390

Asp Leu Ile Ser Leu Pro Thr Thr Val Glu Gly Leu Gln Lys Ser Val
 1 5 10 15

Ala Ser Ile Gly Xaa Thr Leu Asn Ser Val His Leu Ala Val Glu Ala
 20 25 30

Leu Gln Lys Thr Val Asp Glu His Lys Lys Thr
 35 40

<210> 391

<211> 43

<212> PRT

<213> Homo sapiens

<400> 391

Met Glu Leu Leu Gln Ser Asp Met Asn Gln His Phe Leu Lys Glu Thr
 1 5 10 15

Pro Gly Ser Asn Gln Ile Ile Pro Ser Pro Ser Ala Thr Ser Glu Leu
 20 25 30

Asp Asn Lys Thr His Ser Glu Asn Leu Lys Gln
 35 40

<210> 392

<211> 32

<212> PRT

<213> Homo sapiens

<400> 392

Met Gly Asp Arg Ser Ala Thr Leu Lys Arg Gln Ser Leu Asp Gln Val
 1 5 10 15

Thr Asn Arg Thr Asp Thr Val Lys Ile Gln Ser Ile Lys Lys Glu Gly
 20 25 30

<210> 393
 <211> 258
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (161)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 393
 Asp Ser Glu Ser Ser Ser Glu Glu Glu Glu Glu Phe Gly Val Val Gly
 1 5 10 15
 Asn Arg Ser Arg Phe Ala Lys Gly Asp Tyr Leu Arg Cys Cys Lys Ile
 20 25 30
 Cys Tyr Pro Leu Cys Gly Phe Val Ile Leu Ala Ala Cys Val Val Ala
 35 40 45
 Cys Val Gly Leu Val Trp Met Gln Val Ala Leu Lys Glu Asp Leu Asp
 50 55 60
 Ala Leu Lys Glu Lys Phe Arg Thr Met Glu Ser Asn Gln Lys Ser Ser
 65 70 75 80
 Phe Gln Glu Ile Pro Lys Leu Asn Glu Glu Leu Leu Ser Lys Gln Lys
 85 90 95
 Gln Leu Glu Lys Ile Glu Ser Gly Glu Met Gly Leu Asn Lys Val Trp
 100 105 110
 Ile Asn Ile Thr Glu Met Asn Lys Gln Ile Ser Leu Leu Thr Ser Ala
 115 120 125
 Val Asn His Leu Lys Ala Asn Val Lys Ser Ala Ala Asp Leu Ile Ser
 130 135 140
 Leu Pro Thr Thr Val Glu Gly Leu Gln Lys Ser Val Ala Ser Ile Gly
 145 150 155 160
 Xaa Thr Leu Asn Ser Val His Leu Ala Val Glu Ala Leu Gln Lys Thr
 165 170 175
 Val Asp Glu His Lys Lys Thr Met Glu Leu Leu Gln Ser Asp Met Asn
 180 185 190
 Gln His Phe Leu Lys Glu Thr Pro Gly Ser Asn Gln Ile Ile Pro Ser
 195 200 205
 Pro Ser Ala Thr Ser Glu Leu Asp Asn Lys Thr His Ser Glu Asn Leu
 210 215 220

Lys Gln Met Gly Asp Arg Ser Ala Thr Leu Lys Arg Gln Ser Leu Asp
 225 230 235 240

Gln Val Thr Asn Arg Thr Asp Thr Val Lys Ile Gln Ser Ile Lys Lys
 245 250 255

Glu Gly

<210> 394
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 394
 Ser Pro Gln Phe Leu Ser Ser Lys Ser Leu Pro Thr
 1 5 10

<210> 395
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 395
 Gly Pro Pro Ser Pro Arg Gly Leu Pro Ser Leu Pro Leu His Leu Pro
 1 5 10 15

Ala Pro Arg Arg Tyr Leu Gln Ser Arg Tyr Ala Cys Ser Gln Ser Ser
 20 25 30

Val Ser Ala Ala Ala Arg Arg Trp Gly Ser Gly Trp Met Ala Trp Asp
 35 40 45

Pro Trp Asn Gln Ala Ser Gly Arg Tyr Ala Arg Ile Thr Leu Leu Ser
 50 55 60

Val Gln Ala Cys His Gln Pro Thr Val Trp Pro Arg Ala Gly His Ser
 65 70 75 80

Leu Pro Glu Arg Tyr Ser Leu His Pro His Asn Gly Asp Ser Thr His
 85 90 95

Leu Ser Gly Leu Leu Thr Val Lys Cys Gly Ala
 100 105

<210> 396
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 396
 Gly Pro Pro Ser Pro Arg Gly Leu Pro Ser Leu Pro Leu His Leu Pro
 1 5 10 15

Ala Pro Arg Arg Tyr Leu Gln Ser Arg Tyr Ala Cys Ser Gln Ser Ser

20

25

30

Val Ser Ala Ala Ala
35

<210> 397
<211> 33
<212> PRT
<213> Homo sapiens

<400> 397
Arg Arg Trp Gly Ser Gly Trp Met Ala Trp Asp Pro Trp Asn Gln Ala
1 5 10 15
Ser Gly Arg Tyr Ala Arg Ile Thr Leu Leu Ser Val Gln Ala Cys His
20 25 30

Gln

<210> 398
<211> 37
<212> PRT
<213> Homo sapiens

<400> 398
Pro Thr Val Trp Pro Arg Ala Gly His Ser Leu Pro Glu Arg Tyr Ser
1 5 10 15
Leu His Pro His Asn Gly Asp Ser Thr His Leu Ser Gly Leu Leu Thr
20 25 30

Val Lys Cys Gly Ala
35

<210> 399
<211> 173
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 399
Gly Pro Pro Ser Pro Arg Gly Leu Pro Ser Leu Pro Leu His Leu Pro
1 5 10 15
Ala Pro Arg Arg Tyr Leu Gln Ser Arg Tyr Ala Cys Ser Gln Ser Ser

	20		25		30										
Val	Ser	Ala	Ala	Ala	Arg	Arg	Trp	Gly	Ser	Gly	Trp	Met	Ala	Trp	Asp
	35						40					45			
Pro	Trp	Asn	Gln	Ala	Ser	Gly	Arg	Tyr	Ala	Arg	Ile	Thr	Leu	Leu	Ser
	50					55					60				
Val	Gln	Ala	Cys	His	Gln	Pro	Thr	Val	Trp	Pro	Arg	Ala	Gly	His	Ser
	65				70					75					80
Leu	Pro	Glu	Arg	Tyr	Ser	Leu	His	Pro	His	Asn	Gly	Asp	Ser	Thr	His
				85					90					95	
Leu	Ser	Gly	Leu	Leu	Thr	Val	Lys	Cys	Gly	Ala	Met	Ala	Gly	Phe	Ala
			100					105					110		
Ser	Tyr	Pro	Trp	Ser	Asp	Phe	Pro	Trp	Cys	Trp	Val	Val	Cys	Phe	Ser
		115					120					125			
Phe	Xaa	Phe	Phe	Phe	Leu	Arg	Gln	Ser	Glu	Ser	Leu	Ser	Gln	Lys	Lys
	130					135					140				
Arg	Gln	Val	Ala	Asp	Glu	Leu	Xaa	Phe	Gly	Gln	Ser	Lys	Arg	Asp	Ser
	145				150					155					160
Asp	Gly	Gly	Trp	Met	Leu	Arg	Ser	Ser	Ala	Gly	Asn	Ser			
				165					170						

<210> 400

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 400

Met	Glu	Ser	Cys	Ser	Val	Val	Gln	Ala	Gly	Val	Lys	Trp	Cys	Asp	Leu
1				5					10					15	

Gly	Ser	Leu	Gln	Pro	Pro	Pro	Arg	Phe	Lys	Gln	Phe	Ser	Trp	Glu	Val
		20					25						30		

Glu	Val	Ala	Val	Ser	Arg	Asp	His	Thr	Ile	Ala	Leu	Gln	Xaa	Gly	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35 40 45
 Gln Ser Lys Xaa Leu Ser Gln Lys Lys Glu Lys Lys Tyr Val Leu Asn
 50 55 60
 Ala Thr Phe Leu Asn Phe Tyr Phe Cys Arg Asp Lys Val Leu Leu Cys
 65 70 75 80
 Cys Pro Gly Trp Ser His Ile Val Gly Leu Lys Gln Ser Ser His Leu
 85 90 95
 Gly Leu Arg Lys Cys Trp Asp Tyr Arg His Gly Pro Leu Xaa Leu Ala
 100 105 110
 Leu Cys His Phe Val Cys Lys
 115

<210> 401
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 401
 Asn Gln Glu Asn Ser Leu Gln Thr Asn Ser Tyr Leu Asp Ser Thr Glu
 1 5 10 15

Ser Lys

<210> 402
 <211> 31
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 402
 Gln Lys Arg Ala Cys Phe Pro Phe Ala Phe Cys Arg Asp Cys Gln Phe
 1 5 10 15

Xaa Glu Xaa Ser Pro Ala Met Leu Pro Val Gln Pro Ala Xaa Leu
 20 25 30

<210> 403
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 403
 Val Ser Ala His Gly Ile Trp Leu Phe Arg Ser
 1 5 10

<210> 404
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 404
 Lys His Ala Ala Pro Pro Ala Ser Leu Ser Leu Ser Leu Leu His
 1 5 10 15

His Gly Gln Lys Arg Ala Cys Phe Pro Phe Ala Phe Cys Arg Asp Cys
 20 25 30

Gln Phe Xaa Glu Xaa Ser Pro Ala Met Leu Pro Val Gln Pro Ala Xaa
 35 40 45

Leu

<210> 405
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 405
 Met Cys Asp Asn Leu Ile Met Leu Arg Thr Leu Met Arg Tyr Ile Val
 1 5 10 15

Phe Leu Ser Leu Gln Cys Leu Trp Gly Gln Gly Thr His Ser Ser Cys
 20 25 30

Tyr Pro Pro Ser Pro Leu Arg Leu Pro Leu Phe Phe Phe Leu Asp Ile

35 40 45
 Lys Leu Gly Ile Ser Asn Trp Pro Val Val Met Gln Ser Cys Phe Ala
 50 55 60
 Leu Tyr Leu Ala Gly Leu Ile Cys Leu Thr Arg Ser His Glu Ala Ile
 65 70 75 80
 Gly Arg Ser Ser Leu Ser Pro Ser Ser Ser Ala Pro Lys Val Val Ala
 85 90 95
 Arg Gly Val Pro Ser
 100

<210> 406
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 406
 Met Leu Val Leu Met Thr Leu Phe Leu Leu Leu Tyr Tyr Arg Tyr Val
 1 5 10 15
 Tyr Gly Phe Gly Val Cys Val Tyr Val His Ile Tyr Ala His Ile Tyr
 20 25 30
 Thr His Thr His Ile Tyr Asn Gln Leu Ser Ile Ala Tyr Ser Ser Leu
 35 40 45
 Ile Ile Tyr Ile Leu Tyr Ser Asn Phe Ser Asn Thr Pro Thr Lys Ser
 50 55 60
 Phe Ser Pro Pro Tyr Gln Tyr Tyr Asn Val Pro Asp Asn Asn Ile Thr
 65 70 75 80
 Asn Pro Ala Leu Thr Pro Thr Asp Phe Phe Glu Asn Lys Gln Leu Leu
 85 90 95
 His Ala Ile Ser Phe Leu Tyr Ser Pro Thr Gly Phe Leu Gln Pro Pro
 100 105 110
 Ala His Pro Val Gln Leu Arg Thr Ser Thr Thr Leu Tyr Gly Asn His
 115 120 125
 Arg Gly Gln Thr Gly Cys Ser Gln Leu Asp
 130 135

<210> 407
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 407
 Ser Asn Thr Pro Thr Lys Ser Phe Ser Pro Pro Tyr Gln Tyr Tyr Asn
 1 5 10 15

Val Pro Asp Asn Asn Ile Thr Asn Pro Ala Leu Thr Pro Thr Asp Phe
 20 25 30

Phe Glu Asn Lys Gln Leu Leu His Ala Ile Ser Phe Leu Tyr Ser Pro
 35 40 45

Thr Gly Phe Leu Gln Pro Pro Ala His Pro Val Gln Leu Arg Thr Ser
 50 55 60

Thr Thr Leu
 65

<210> 408

<211> 12

<212> PRT

<213> Homo sapiens

<400> 408

Met Glu Met Asn Tyr Cys Gly Ser Arg Val Leu Tyr
 1 5 10

<210> 409

<211> 61

<212> PRT

<213> Homo sapiens

<400> 409

Leu Gly Ser Pro Ile Ile Pro Leu Trp Ser Tyr Thr Ser Ala Thr Gln
 1 5 10 15

Ala Ala Ala Leu Val Thr Ser His Val Trp Lys Pro Ser Leu Glu Ala
 20 25 30

His Gln Ile Asn Ile Ser Pro Glu Pro Ser Ile His Tyr Asp Arg Trp
 35 40 45

His Thr Gln Ser Asn Cys Ser Leu Ile Asn Ser Leu Gln
 50 55 60

<210> 410

<211> 12

<212> PRT

<213> Homo sapiens

<400> 410

Ile Pro Glu Glu Ala Ser Cys Phe Pro Ser Ala Val
 1 5 10

<210> 411

<211> 17

<212> PRT

<213> Homo sapiens

<400> 411

Glu Ile Leu Phe Gly Lys Leu Lys Ser Lys Ala Ala Leu Cys Thr Gln
 1 5 10 15

Gly

<210> 412
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 412
 His Ala Asp Arg Tyr Thr Cys Cys Arg Cys Leu Ser Pro Phe Ser Leu
 1 5 10 15

Ala Gly Leu

<210> 413
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 413
 Leu Ser Asp Pro Leu Leu Leu Pro Asp Cys Ser Phe Ser Phe Asn
 1 5 10 15

<210> 414
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 414
 Lys Ala Val Ala Tyr Ala Asn Val Ser Cys Arg Arg Phe Lys His Lys
 1 5 10 15

Thr Thr Lys Leu Gly Pro Ile Gln Trp
 20 25

<210> 415
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 415
 Pro Ser Ser Gln Ser Pro Glu Pro Pro Gln Pro Leu Ser Leu Phe Val
 1 5 10 15

Thr Arg Leu Pro Asn Leu Tyr Asp Phe Pro
 20 25

<210> 416
 <211> 19

<212> PRT
 <213> Homo sapiens

<400> 416
 Ser Arg Gln Ile Ile Cys Thr Asn Leu Cys Lys Cys Thr Pro Ile Cys
 1 5 10 15

Phe Leu Phe

<210> 417
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 417
 Lys Gly Ser Leu Pro Trp Arg Leu Leu Leu Pro Leu Asn Gly Pro
 1 5 10 15

<210> 418
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 418
 Leu Cys Arg Leu Val Phe Glu Ser Ser Ala Gly His Val Ser Val Cys
 1 5 10 15

His Ser Phe

<210> 419
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 419
 Met Leu Leu Pro Val Asn Thr Leu Leu Tyr Ile
 1 5 10

<210> 420
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 420
 Leu Leu Thr Pro Leu Cys Phe Phe Tyr Gly Thr Ser Arg Pro
 1 5 10

<210> 421
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 421
Pro Tyr Leu Glu Leu Val Thr
1 5

<210> 422
<211> 13
<212> PRT
<213> Homo sapiens

<400> 422
Leu Leu Lys Lys Lys Lys Gln Ser Val Gly Phe Ser Val
1 5 10

<210> 423
<211> 7
<212> PRT
<213> Homo sapiens

<400> 423
Cys Ile Leu Glu Ala Gly Arg
1 5

<210> 424
<211> 11
<212> PRT
<213> Homo sapiens

<400> 424
Met Gly Phe Ser Ala Pro Thr Pro Gly Pro Leu
1 5 10

<210> 425
<211> 11
<212> PRT
<213> Homo sapiens

<400> 425
Phe Asp Leu Arg Arg Leu Ile Leu Ser Ile Val
1 5 10

<210> 426
<211> 17
<212> PRT
<213> Homo sapiens

<400> 426
Ala Phe Cys Pro His Val Thr Pro Cys Lys Tyr Ala Val Ile His Thr
1 5 10 15

Val

<210> 427
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 427
 Asn Thr Pro Leu Leu Phe Leu Trp Asp Leu Gln
 1 5 10

<210> 428
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 428
 Ala Thr Ile Phe Arg Thr Ser Tyr Leu Ile Lys Lys Glu Lys Thr Val
 1 5 10 15

Cys

<210> 429
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 429
 Trp Leu Leu Ser Leu His Leu Gly Gly Arg Glu Val Arg Ala Gly Ala
 1 5 10 15

Pro

<210> 430
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 430
 Gln Thr Leu Gln Glu Gly Ser Leu His Ser Ile
 1 5 10

<210> 431
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 431
 Met Gly Phe Ser Ala Pro Thr Pro Gly Pro Leu Phe Asp Leu Arg Arg
 1 5 10 15

Leu Ile Leu Ser Ile Val Ala Phe Cys Pro His Val Thr Pro Cys Lys
 20 25 30

Tyr Ala Val Ile His Thr Val Asn Thr Pro Leu Leu Phe Leu Trp Asp
 35 40 45
 Leu Gln Ala Thr Ile Phe Arg Thr Ser Tyr Leu Ile Lys Lys Glu Lys
 50 55 60
 Thr Val Cys Trp Leu Leu Ser Leu His Leu Gly Gly Arg Glu Val Arg
 65 70 75 80
 Ala Gly Ala Pro Gln Thr Leu Gln Glu Gly Ser Leu His Ser Ile
 85 90 95

<210> 432
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 432
 Tyr Trp Val Ser Ile Ser Gln Arg Ser Val Cys Gln Gln Ala Arg Thr
 1 5 10 15
 Ser Ile Phe Phe Lys Asp Gly Leu Ser Arg Glu Lys Tyr Ser Asn Asn
 20 25 30

Gly

<210> 433
 <211> 160
 <212> PRT
 <213> Homo sapiens

<400> 433
 Leu Ser Val Arg Ala Pro Gly Val Pro Ala Ala Arg Pro Arg Leu Ser
 1 5 10 15
 Ser Ala Arg Gln Ala Gly Ala Gly Arg Gly Glu Leu Arg Gly Gln Arg
 20 25 30
 Leu Trp Leu Gly Pro Glu Cys Gly Cys Gly Ala Gly Gln Ala Gly Ser
 35 40 45
 Met Leu Arg Ala Val Gly Ser Leu Leu Arg Leu Gly Arg Gly Leu Thr
 50 55 60
 Val Arg Cys Gly Pro Gly Ala Pro Leu Glu Ala Thr Arg Arg Pro Ala
 65 70 75 80
 Pro Ala Leu Pro Pro Arg Gly Leu Pro Cys Tyr Ser Ser Gly Gly Ala
 85 90 95
 Pro Ser Asn Ser Gly Pro Gln Gly His Gly Glu Ile His Arg Val Pro
 100 105 110
 Thr Gln Arg Arg Pro Ser Gln Phe Asp Lys Lys Ile Leu Leu Trp Thr

115 120 125
 Gly Arg Phe Lys Ser Met Glu Glu Ile Pro Pro Arg Ile Pro Pro Glu
 130 135 140
 Met Ile Asp Thr Ala Arg Asn Lys Ala Arg Val Lys Ala Cys Tyr Ile
 145 150 155 160

<210> 434
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 434
 Leu Ser Val Arg Ala Pro Gly Val Pro Ala Ala Arg Pro Arg Leu Ser
 1 5 10 15
 Ser Ala Arg Gln Ala Gly Ala Gly Arg Gly Glu Leu Arg Gly Gln Arg
 20 25 30
 Leu Trp Leu Gly
 35

<210> 435
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 435
 Pro Glu Cys Gly Cys Gly Ala Gly Gln Ala Gly Ser Met Leu Arg Ala
 1 5 10 15
 Val Gly Ser Leu Leu Arg Leu Gly Arg Gly Leu Thr Val Arg Cys Gly
 20 25 30
 Pro Gly

<210> 436
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 436
 Ala Pro Leu Glu Ala Thr Arg Arg Pro Ala Pro Ala Leu Pro Pro Arg
 1 5 10 15
 Gly Leu Pro Cys Tyr Ser Ser Gly Gly Ala Pro Ser Asn Ser Gly Pro
 20 25 30
 Gln Gly

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<210> 437
<211> 27
<212> PRT
<213> Homo sapiens
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<400> 437
His Gly Glu Ile His Arg Val Pro Thr Gln Arg Arg Pro Ser Gln Phe
1 5 10 15

Asp Lys Lys Ile Leu Leu Trp Thr Gly Arg Phe
20 25

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<210> 438
<211> 29 .
<212> PRT
<213> Homo sapiens
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<400> 438
Lys Ser Met Glu Glu Ile Pro Pro Arg Ile Pro Pro Glu Met Ile Asp
1 5 10 15

Thr Ala Arg Asn Lys Ala Arg Val Lys Ala Cys Tyr Ile
20 25

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<210> 439
<211> 57
<212> PRT
<213> Homo sapiens
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<400> 439
Cys Ser Pro Gly Gln Asp Glu Met Gln Asp Glu Thr Trp Cys Ser Gly
1 5 10 15

Gln Ser Glu Thr Val Asn Glu Ala Lys Gln Leu Arg Thr Thr His Ser
20 25 30

Arg Val Pro Asn Gln Gln Val Cys Val Cys Gly Trp Leu Pro Val Asn
35 40 45

Ile Ser Pro His Ser Pro Leu Lys Lys
50 55

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<210> 440
<211> 147
<212> PRT
<213> Homo sapiens
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<400> 440
Met Ser Gly Asp Val Cys Val Phe Gly Tyr Ala His Leu His Ser Gln
1 5 10 15

Thr Lys His Ser Gly Ser Gln Gly Trp Val Leu Ile Tyr Leu Phe Ala
20 25 30

Met Gln Lys Ile Ser Cys Thr Lys Leu Pro Leu Leu Arg Asn Leu Lys
 35 40 45

Leu Asn Leu Val Trp Leu Ser Gln Gly Trp Val Phe Phe Lys Gly Leu
 50 55 60

Trp Gly Glu Met Leu Thr Gly Ser His Pro Gln Thr His Thr Cys Trp
 65 70 75 80

Leu Gly Thr Arg Leu Trp Val Val Leu Ser Cys Leu Ala Ser Leu Thr
 85 90 95

Val Ser Asp Cys Pro Glu His Gln Val Ser Ser Cys Ile Ser Ser Trp
 100 105 110

Pro Gly Glu His Ser Val Ser Phe Gln Pro Phe Pro Pro Phe Pro His
 115 120 125

Ser Leu Gly Gly Thr Glu Val Gly Val Glu Glu Ser Gln Met Ala Gly
 130 135 140

Val Gly Ile
 145

<210> 441

<211> 15

<212> PRT

<213> Homo sapiens

<400> 441

Leu Asn Ile Leu Ile Ser Leu Thr Val Ser Ser His Cys Lys Leu
 1 5 10 15

<210> 442

<211> 13

<212> PRT

<213> Homo sapiens

<400> 442

Ile Asn Tyr His Ser Gly Phe Ile His Gln Phe Leu Ala
 1 5 10

<210> 443

<211> 11

<212> PRT

<213> Homo sapiens

<400> 443

Met Ala Asn Asn Ser Leu Ser Ser Gln Phe Ile
 1 5 10

<210> 444

<211> 65

<212> PRT

<213> Homo sapiens

<400> 444

Ile Ser Gly Val Leu Ile Phe Asn Leu Ile Ala Ser Ser Trp Val Leu
 1 5 10 15

Cys Phe Pro Leu Cys Asp Leu Ser Cys Gln Lys Thr Leu Arg Ile Phe
 20 25 30

Phe Ala Ser Phe Phe His Ala Val Cys Val His Val Ser Cys Thr Ser
 35 40 45

Trp Gln Pro Leu Val Leu Phe Ile Lys Trp Trp Val Val Gly Cys Ser
 50 55 60

Pro
 65

<210> 445

<211> 23

<212> PRT

<213> Homo sapiens

<400> 445

Cys Asp Leu Ser Cys Gln Lys Thr Leu Arg Ile Phe Phe Ala Ser Phe
 1 5 10 15

Phe His Ala Val Cys Val His
 20

<210> 446

<211> 9

<212> PRT

<213> Homo sapiens

<400> 446

Glu Leu Ala Ile Gly Glu Ser Cys Ser
 1 5

<210> 447

<211> 17

<212> PRT

<213> Homo sapiens

<400> 447

Pro Val Ile Trp Pro Asp Gly Lys Arg Ile Val Leu Leu Ala Glu Val
 1 5 10 15

Ser

<210> 448

<211> 27

<212> PRT

<213> Homo sapiens

<400> 448

Phe Tyr Tyr Phe Trp Arg Gln Gly Gly Ser Cys Phe Val Gln Thr Gly
 1 5 10 15

Val Gln Trp Cys Asp His Gly Ser Leu Gln Leu
 20 25

<210> 449

<211> 10

<212> PRT

<213> Homo sapiens

<400> 449

Thr Pro Gly Arg Gln Ser Lys Thr Pro Ser
 1 5 10

<210> 450

<211> 34

<212> PRT

<213> Homo sapiens

<400> 450

Tyr Phe Ile Ile Phe Gly Asp Arg Glu Gly Leu Ala Leu Phe Arg Leu
 1 5 10 15

Glu Cys Ser Gly Val Ile Met Ala His Cys Asn Phe Glu Leu Leu Gly
 20 25 30

Asp Arg

<210> 451

<211> 10

<212> PRT

<213> Homo sapiens

<400> 451

Cys Phe Leu Ser Val Ser Phe Gln Trp Asn
 1 5 10

<210> 452

<211> 17

<212> PRT

<213> Homo sapiens

<400> 452

Val Thr Ile Ala Gln Val Gly Ile Phe Val Cys Phe Val His Cys Cys
 1 5 10 15

Thr

<210> 453
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 453
 Pro Gly Gln Val Pro Ser Lys His Leu Gly Ser Asn Ala Ser Val Arg
 1 5 10 15

Ala

<210> 454
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 454
 Asp Glu Gly Ala Lys Val Gln Arg Arg Pro Trp Gly Ser Gln Thr His
 1 5 10 15

Ser Pro Val Leu Phe Leu
 20

<210> 455
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 455
 Leu Thr Arg Pro Gly Leu Trp Gly Ser Leu Leu Pro Val Gln Gln Gln
 1 5 10 15

Arg Gly

<210> 456
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 456
 Cys Ala Ser Leu Gly Val Leu Arg Ala Asn Arg Ser Pro Cys Val
 1 5 10 15

<210> 457
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 457
 Ser Trp Leu Glu Val Thr Thr Leu Ser Ala Pro Gly Pro Val Ile Thr

1

5

10

15

Thr Tyr

<210> 458

<211> 18

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 458

Pro	Gly	Gln	Trp	Val	Arg	Glu	Ile	Xaa	Leu	Val	Gly	Arg	Ala	Val	Ala
1				5					10					15	

Arg Val

<210> 459

<211> 16

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 459

Leu	Thr	Trp	Pro	Pro	Xaa	Gly	Pro	Met	Gly	Thr	Val	Trp	Pro	Gly	Phe
1				5					10					15	

<210> 460

<211> 17

<212> PRT

<213> Homo sapiens

<400> 460

Met	Ala	Asp	Ile	Pro	Gly	Thr	Phe	Leu	Ala	Leu	Gly	Cys	His	Gly	Gln
1				5				10						15	

Arg

<210> 461

<211> 15

<212> PRT

<213> Homo sapiens

<400> 461

Val Gly Arg Gly Ser Trp Ala Ser Gly Trp Thr Asn Gln Ser Ala
1 5 10 15

<210> 462

<211> 16

<212> PRT

<213> Homo sapiens

<400> 462

Pro Asp His Pro Leu Pro Val Gly Leu Leu Glu Ala Trp Arg Val Glu
1 5 10 15

<210> 463

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 463

Trp Gly Ser Gln Thr His Ser Pro Val Leu Phe Leu Leu Thr Arg Pro
1 5 10 15

Gly Leu Trp Gly Ser Leu Leu Pro Val Gln Gln Gln Arg Gly Cys Ala
20 25 30

Ser Leu Gly Val Leu Arg Ala Asn Arg Ser Pro Cys Val Ser Trp Leu
35 40 45

Glu Val Thr Thr Leu Ser Ala Pro Gly Pro Val Ile Thr Thr Tyr Pro
50 55 60

Gly Gln Trp Val Arg Glu Ile Xaa Leu Val Gly Arg Ala Val Ala Arg
65 70 75 80

Val Leu Thr Trp Pro Pro Xaa Gly Pro Met Gly Thr Val Trp Pro Gly
85 90 95

Phe Met Ala Asp Ile Pro Gly Thr Phe Leu Ala Leu Gly Cys His Gly
100 105 110

Gln Arg Val Gly Arg Gly Ser Trp Ala Ser Gly Trp Thr Asn Gln Xaa

115 120 125
 Ser Ala Phe Pro Ala Gly Pro Pro Asp His Pro Leu Pro Val
 130 135 140

<210> 464
 <211> 94
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 464
 Leu Ala Arg Ala Asp Pro Pro Gly Cys Arg Arg Arg Gly Trp Arg Pro
 1 5 10 15

Ser Ser Ala Glu Leu Gln Leu Arg Leu Leu Thr Pro Thr Phe Glu Gly
 20 25 30

Ile Asn Gly Leu Leu Leu Lys Gln His Leu Val Gln Asn Pro Val Arg
 35 40 45

Leu Trp Gln Leu Leu Gly Gly Thr Phe Tyr Phe Asn Thr Ser Arg Leu
 50 55 60

Lys Gln Lys Asn Lys Glu Lys Asp Lys Ser Lys Gly Lys Ala Pro Glu
 65 70 75 80

Glu Asp Glu Xaa Glu Arg Arg Arg Arg Glu Arg Asp Asp Gln
 85 90

<210> 465
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 465
 Phe Leu Arg Phe Trp Cys Thr Cys His Val Ser Ser
 1 5 10